27 FEB 1975

ADMINISTRATION REPORT

OF

THE GOVERNMENT MUSEUM, MADRAS
THE NATIONAL ART GALLERY, MADRAS
THE GOVERNMENT MUSEUM, PUDUKKOTTAI

AND

THE CONNEMARA PUBLIC LIBRARY
(Exchange Section), MADRAS

FOR THE YEAR

1963-64

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GOVERNMENT OF MADRAS
1966

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GOVERNMENT OF MADRAS
1966

ADMINISTRATION REPORT OF THE GOVERNMENT MUSEUMS, ETC., FOR 1963–64.

GOVERNMENT MUSEUM, MADRAS-8.

GENERAL.

Distinguished visitors.—The following were the distinguished visitors who visited the Government Museum, Madras, and the National Art Gallery during the period under report :—

1 Mr. Suringtonga Singha, a Sanskrit language student from Thailand.
2 Mr. K. G. Garnzetov, U.S.S.R.
3 Mr. B. R. Kerbabeau, U.S.S.R.
4 Mr. V. A. Nocheto, U.S.S.R.
5 Mr. V. L. Selganih, U.S.S.R.
6 Two Soviet Lexicographers under the India Soviet Cultural and Scientific Exchange.
7 Mr. Hangthun Hak, Tchnical Director in-charge of relations with the Royal Palace of Cambodia.
8 Mr. Flavien Ranaur, Director-General of Information, Government of Malagay Republic, Madagascar.
9 Eleven Member Goodwill delegation from Sikkim.
10 Mr. Andrew Fontaine, Foreign Editor " Le Monde ", France.
11 Dr. A. Newman, Minister of Justice, Crechoslovakia.
12 Dr. O. Baer, Teacher of Geography, Zurich.
13 Dr. O. Bai, Teacher of Geography, Switzerland.

Special exhibitions.—The following special exhibitions were arranged during the year at the Government Museum, Madras :—

1 Refractory minerals;
2 Wood carvings;
3 Flight in Animals;
4 Rubber and its uses;
5 Conservation of stone objects:
6 Indian Stone-Age; and
7 Queen Victoria's Indian Medals.

Lectures and demonstrations.—As in the previous year, demonstrations to the teachers of the local high schools were conducted during the months of November and December, 1963 for the benefit of the teachers of the various local high schools in the Museum Galleries on Saturdays. These demonstrations enable the teachers in their turn to guide the pupils round the galleries intelligently. The Superintendent delivered a series of lectures on Museology to the students at the Salar Jung Museum, Hyderabad and at the M.S. University, Baroda. The Superintendent and Curators of the Museum also delivered a series of lectures on the theoretical aspect of Museum methods to the students of the M.A. Degree course in Archaeology of the Madras University.

Audio-visual aids.—Miniature bronze replies of the famous Bronze icons of Rama and Sita were prepared and kept for sale to the public. A set of the icons of Vijayanagar kings was prepared for the sale to the public. A set of the icons of Vijayanagar kings was prepared for the Archaeological Museum, Hampi.

Re-organisation and development of the museum.—The newly constructed Bronze and Natural History Galleries and the Extension to the Chemical Laboratory were inaugurated by Shri Bishnuram Medhi on 16th September 1963 and the new Galleries were thrown open to the public from the 17th September 1963. The Bronze figures that had been displaed in two small rooms on the first floor of the old front buildings were rearranged and re-organized in the newly constructed Bronze Gallery in a more modern setting and several new bronze icons were also exhibited. The Children's Gallery which had been located on the first floor of the Geology Galleries was shifted to the mezzanine floor of the newly constructed Natural History Gallery and a part of the Bird Gallery, has been provisionally accommodated in the ground floor, pending the completion of the modernisation of the regular Bird Gallery in the old building. The newly constructed two-storeyed Extension to the Chemical Conservation and Research Laboratory was also simultaneously declared open in September 1963.

Central Advisory Board of Archæology.—The Superintendent attended the meeting of the Central Advisory Board of Museums and the Standing Committee of the Central Advisory Board of Museums at Lucknow in October, 1963, as a representative of this State.

The Museums Association of India.—The Superintendent attended the Annual Meeting of the Museums Association of India at Lucknow in October, 1963 and also participated in the Seminar of the Museums Association by reading a paper on the "Presentation and Installation of Natural History collections in Museums".

Central Advisory Board of Archology.—The Superintendent attended the meeting of the Central Advisory Board of Archaeology held at Lucknow in October, 1963, as a representative of this State.

Museum Camp on Indian Sculpture.—The first All India Museums camp organised by the Ministry of Scientific Research and Cultural Affairs of the Government of India, on the subject of Indian sculptures was held at the Madras Government Museum from 3rd to 18th September 1963. All facilities for conducting the camp were provided by the Museums and the Superintendent participated in the Seminar, contributing a paper on "The Presentation and Installation of Sculptures in Indian Museums". The then Curator for Archaeology also participated in the Seminar.

Government Museum, Pudukkottai.—The Superintendent inspected the Government Museum, Pudukkottai from 8th to 14th August, 1963 and made several suggestions for its improvement.

Padmanabhapuram Palace and Museum of Antiquities.—The Superintendent undertook a tour to Padmanabhapuram from 21st to 24th May 1963, and inspected the Padmanabhapuram Palace and Museum of Antiquities in Kanyakumari district.

Publications.—The following publications were brought out during the year:

1. Guide to the Galleries of Foreign Animals, Genral Zoology, Skeletal exhibits an Amphibia by S. T. Satyamurti.

2. Pazhamkala Panpadum, Pazhamkudigalin, Panpadum (Tamil) by C. J. Jayadev and M. Raghupathy.

3. Bronzes of South India by P. R. Srinivasan.

4 Buddhist sculptures from a stupa near Goli village, Guntur district, by T. N. Ramachandran (Reprint).

The release of the Bulletin on Bronzes of South India by P. R. Srinivasan, was synchronized with the opening the new Bronze Gallery in September 1963.

The following publications were in the Press during the year:—

1. Guide to the Mammal Gallery of the Madras Museum by S. T. Satyamurti.

2. Descriptive Catalogue of the Butterflies in the collection of the Madras Government Museum by S. T. Satyamurti.

3. Nolamba Sculptures in the Madras Museum by C. Sivaramamurthi.
4. Guide to the Anthropological Galleries (English) by C. J. Jeyadev.
5. Indian Epigraphy and South Indian Scripts by C. Sivaramamurthi (Reprint).
6. Handbook of the Madras Government Museum edited by the Superintendent.
7. Dowlaishwaram Hoard of Eastern Chalukyan and Chola coins by T. Balakrishnan Nayar.
8. Roman and Byzantine coins by T. G. Aravamudhan.
9. Guide to the Principal exhibits in the Government Museum, Pudukkottai by M. S. Chandrasekhar.

ZOOLOGY SECTION.

Additions to the collections—

The following items were added :—

1 The Malabar Pied Hornbill (*Hydrocissa cornata*).
2 The Slender Loris (*Loris tardigradus lydekkerianus*).
3 The Flying Squirrel (*Petaurista phillipensis*).
4 The Rabbit (*Oryctolagus cuniculus*).
5 The White Peacock (*Pavo cristatus*).
6 The Common Mungoose (*Herpestes edwardsii*).
7 The Mouse Deer (*Moschiola memina*).
8 The Sacred (Sinistral) Chank (*Xancus rapa*).
9 Four specimens of Cake urchin (*Clypeaster rarispinus*).
10 The Red-wattled Lapwing (*Lobivanellus indicus*).
11 The Macaw Parrot.
12 A collection of sixteen shells.
13 The Spotted billed Pelican (*Pelicanus phillipensis*).
14 The Large Fruit Bat (*Pteropus giganteus*).
15 A pair of Rhesus Macaques (*Macaca mulatta*).
16 The Assam or Malay Giant Squirrel (*Ratufa gigantea*).
17 The Smooth Indian Otter (*Lutrogale perspicillata*).
18. The Cheeta skin (*Acinonyx jubatuts*).
19 Two Mural paintings for Fish Gallery.
20 The Brown-headed Gull (*Larus burnnicephalus*).
21 The Black Drongo (*Dicrurus macrocercus*).
22 The White Breasted Kingfisher (*Halcyon smyrnensis*).

Work in the galleries.—(*a*) The following specimens were prepared and exhibited in the Galleries :—

1 The Slender Loris (*Loris tardigradus lydekkarianus*).
2 The Flying Squirrel (*Petaurista phillipensis*).
3 The Rabbit (*Oryctolagus cuniculus*).
4 The Sambar (*Rusa unicolor nigra*).
5 The Large Fruit Bat (*Pteropus giganteus*).
6 Mural paintings fixed on to the wall in the Fish Gallery.
7 The Mouse Deer (*Moschiola memina*).
8 The Red-wattled Lapwing (*Lobivanellus indicus*).

(b) *Improvements to the galleries—Coral Gallery.*—The enlarged model of Paramecium was provided with new cork bound labels and new, thin, brightly coloured indicators and re-exhibited in this Gallery. Four old Indian ink diagrams of coelenterates were replaced by new re-drawn ones.

Invertebrate Gallery.—Three old and discoloured sericulture photographs were replaced by new ones purchased from thte Government Sericultutre Farm. Ten old discoloured diagrams o fInsects and Arachnids and two Indian ink diagrams placed inside the Arthropoda classificatory show case were replaced by freshly redrawn ones. The cracks formed at the sides and back portion of the rectangular jar containing the Limulus specimen were covered with "Araldite" and after drying, the specimen was re-exhibited inside the same specimen jar. The top part of one of the pillars in this gallery broke and fell down and the repairs to it were attended to immediately. All the Arachnid specimens were re-arranged in this gallery according to the latest classification and the old painted labels fixed inside the show cases were replaced by new wooden painted ones. All the insect specimens in this Gallery were re-arranged as per the latest classification and new wooden painted family labels were fixed to the show cases. Six large sloping cases containing shell specimens were distempered with cream colour. The specimens placed inside the first distempered sloping cases were provided with new labels and the base planks were also re-varanished. A pair of Dhobi crabs were taken out of the reserve collection and after mounting them in a jar they were exhibited in this Gallery. The coloured figure illustrating Torsion in Gastropod shells was replaced by a new re-drawn figure.

Fish Gallery.—The two Electric Ray specimens were renovated and re-exhibited in this Gallery. The large Whale shark which was hanging in this Gallery with the ventral or the belly surface upwards for the past nearly seventy years was remounted in the correct posture and the whole specimen was renovated and re-painted with natural colours. Two mural paintings were fixed on to one of the four walls in this Gallery.

Amphibian Gallery.—The background plank containing the two mounted articulated skeletons of Frog was re-painted with black paint and re-exhibited in this Gallery.

Reptile Gallery.—The wax casts of the sea snake and its young one were renovated and re-exhibited in this Gallery. New bi-lingual explanatory and family labels for the modernized show cases containing snake specimen jars were prepared and they were fixed on to the back of the show cases after the different families were demarcated with plastic threads.

Bird Gallery.—Thirty-three show cases containing specimens of birds both from the Old Bird Gallery and Foreign Animals Gallery were transferred to the New Bird Gallery and the exhibits arranged in their proper systematic order. The tops of the fourteen large wall cases in the new Bird Gallery were painted with wood finish brown paint. The interior colour of fourteen show-cases in the New Bird Gallery was changed to suitable uniform green colour by repainting them. About three hundred stuffed bird specimens were renovated and re-exhibited in the new Bird Gallery. The main entrance to the new Bird Gallery (with the collapsible doors) and forty windows were provided with curtains of suitable colour to reduce the intensity of natural light entering this Gallery. The habitat group showing the kingfisher guarding the eggs was renovated and re-exhibited in the new Bird Gallery. Twelve more modernised show-cases have been added to the old Bird Gallery and the specimens have yet to be displayed inside them. Provision of wooden pelmets for the windows and the main entrance in the new Bird Gallery is under progress.

Mammal Gallery.—The background colour of the two show-cases containing the bear specimens was changed to grey. The background colour of the two old condemned show-cases containing civets and mangooses was changed to grey and internal illumination was provided for these show-cases. The Sambar specimen has been exhibited inside a new show-case which was specially made by the Government Wood Working unit. One of the glass eyes of an old Antelope head exhibited in this gallery had fallen down and after

replacing the glass eye the whole head was renovated and re-exhibited in this gallery. The newly stuffed mounted mouse deer was transferred to this gallery and exhibited inside the show case containing the other mouse deer specimens. After removing the white fungal patches on the Dolphin specimen it was re-exhibited. The skull of the lion which was found to have been covered with fungus was renovated and re-exhibited inside the Felidae case.

Foreign Animals Gallery.—All the four dioramas placed in the gallery were provided with flourescent lamps to ensure a better display.

Flight in Animals and Skeleton galleries.—A fresh specimen of *Draco* (the Flying Lizard) from the reserve collection was prepared as a dry specimen and mounted on a treated and preserved twig. The twig along with the *Draco* was fixed inside the wall case and exhibited in the Flight in Animals Gallery. Old chunam mortar from one of the ventilators fell down and the repairs to it were attended to immediately.

Labelling.—About fifty labels were re-printed on ivory cardboards and put up in different galleries replacing the discoloured ones. The painted labels on the specimen jars were touched up regularly in different galleries. About three hundred reserve collection boxes containing shells were provided with freshly written labels and after giving a coating of molten wax mixed with naphthalene they were transferred to the respective drawers in the Invertebrate Gallery.

Preservation of reserve collection.—Personal attention was given by the Curator to the thorough cleaning and replenishing with fresh preservatives (rectified spirit or formalin, as the case may be) of the large number of reserve collections jars. Old washers of about one hundred and fifty kilner jars were replaced by fresh ones. The labels written in Indian ink were pasted on the jars wherever the old labels were found defaced, discoloured and moth eaten. The cabinet drawers and boxes containing reserve collections of dry preserved specimens were systematically provided with fresh lysol and camphor plugs and all the glass panes of these insect drawers were thoroughly cleaned while giving the preservatory treatement to the specimens. Provision of naphthalene balls and spray of " tik-20 " was carried out systematically for the cupboards and drawers containing reserve collection boxes of dry preserved shells, corals, etc. The reserve collection of bird skins was examined periodically and provided with naphthalene powder and spray of ' tik-20 '.

Research and publications.—1. The Guide to the Galleries of Foreign animals, General Zoology, Skeletal exhibits and Amphibians was published. (2) The Guide to the Mammal Gallery prepared by Superintendent is in the final stages of printing. (3) The Superintendent started, continued and completed writing thte manuscripts for publishing the Guide to the Invertebrate Galleries. (4) The Bulletin of the South Indian Butterflies and the Bulletin of the South Indian Amphibians prepared by Superintendent are under publication. (5) The Curator continued his research work on the Family Acrididae.

Tours.—The Curator went to the neighbouring areas of Minjur during May 1963 and also to Mahabalipuram and Vedanthangal during March 1964 for the collection of birds. The Superintendent made a collection of birds at Pudukkottai and surrounding places during August 1963.

Photographs added.—Fifty-seven (57) photo negatives have been added during the year 1963–64.

Plans for the year 1964–65—*New additions and improvements.*—(1) Preparation of four dioramas, fixing up of birds inside the newly made systematic show cases and also the provision of wooden cut out labels in the old Bird Gallery.

(2) Distempering of shell cases and relabelling of shel exhibits will be continued in the Invertebrate Gallery.

(3) Collection of more fresh specimens of insects and filling up the insect cabinates beneath the showcases in the Invertebrate Gallery.

(4) Relabelling of shell boxes will be continued and after finishing relabelling they will be arranged in systematic order inside the drawers in the Invertebrate Gallery.

(5) Remodelling of the lion case in the Mammal Gallery.

(6) Remodelling of four old type bird cases and exhibiting the white peacock in one of them in the New Bird Gallery.

Research and publications.—The Guide to the Mammal Gallery and the Descriptive Catalogue of the Butterflies in the collection of the Madras Government Museum were in the press during the year. The Superintendent also completed his manuscripts of the Bulletin on South Indian Amphibia and the Guide to the Invertebrate galleries and got them ready for the press with suitable illustrations. These will be published during the ensuing year. The Superintendent commenced a revision of the classification of the specimens in the Fish Gallery with a view to preparing a Guide to the Fish Gallery. The Curator for Zoology will continue his research on the Orthoptera of South India.

BOTANY SECTION.

New additions to the collections (including reserve).—One attractive model illustrating the principal divisions of the Plant Kingdom was departmentally prepared and added. The purchases in the year were samples of seeds of eleven different strains of millets, as well as seeds, lint, halocards and specimens of six different varieties of cotton from the Agricultural Department, six pressed specimens of *Fumaria parviflora* from the Curator, Government Botanic Gardens, Ootacamund, and a tubeful of *Azolla pinnata,* two specimens of *Ophioglossum pedunculosum* and one set of enlarged models of bacteria from the biological suppliers.

Additions to the galleries.—A set of enlarged models of bacteria, an attractive model illustrating the principal divisions of the Plant Kingdom, and sixteen selected herbarium specimens including *Fumaria parviflora,* from the reserve collections, were exhibited in the Systematic Botany Gallery.

In the Economic Products Gallery, two new earheads of *Pennisetum typhoides* (Kambu), eleven new strains of millets, twenty-nine new strains and four photographs relating to cultivation of paddy were added to the exhibits of cereals. A sample of seeds of *Hevea braziliensis* (*Para Rubber*) was the addition to the exhibits in the Rubber series.

Improvements to the galleries.—The group of insectivorous plants in the Ecology Gallery was re-arranged eliminating the congested appearance. In the Systematic Botany Gallery nineteen show cases were varnished. The open bases of seven vertical cases were converted into cupboards, thus rendering the cases not only more attractive, but also more useful. The only show case that was available for the model illustrating the classification of plants, was given the most modern look by suitably remodelling and providing it with a panelled base and internal lighting. The large show case for " Bamboo rhizomes " was also provided with internal lighting. Temporary electric connections to four show cases with internal lighting were converted into permanent ones.

Twenty-seven old exhibits of paddy seeds in the Economic Products Gallery were replaced by new cases. The Jute series was suitably re-arranged eliminating congestion. Fifteen photographs illustrating the important aspects of coir industry were varnished and the putty on all the ten sloping cases was renewed. The interior of two built in show cases containing fibres was re-painted. Temporary electric connections to fourteen show cases were converted into permanent ones.

Labelling and preservation.—The old exhibit of *Psilotum sp.* in the Systematic Botany Gallery was renovated and re-exhibited in a rectangular jar. One photographic exhibit in the Ecology Gallery and fifteen in the Economic Products Gallery were given cut out mounts. Two earheads of *Pennisetum typhoides* (Kambu) and samples of the seeds of *Zea mays* (maize), *Hevea braziliensis* (Para Rubber), eleven different varieties of millets and twenty-eight different varieties of paddy were suitably preserved and mounted in glass-topped boxes. The Curator's research collections of *Ophioglosum pedunculosum*, and *Azolla pinnata* were preserved and mounted in formalin. The preservative for four wet specimens of *Sargassum* in the reserve collections was replenished. The Curator's entire research collection of dry specimens of ferns, and eighteen dry specimens in the reserve collections were poisoned and mounted on herbarium sheets. Five specimens of fibres and a set of enlarged models of bacteria were neatly mounted for display. Ninety-two specimens of textiles with designs of indigenous art and industry were aerated and preserved with naphthalene.

In the Systematic Botany Gallery, nineteen exhibits were provided with freshly prepared and printed labels; and nine, long, printed label-charts describing the characteristics of the several natural orders of plants were renewed. A special label with a detailed sketch was prepared for the model of the principal divisions of the Plant Kingdom. Two labels were painted for the exhibits of Psilotum and foliose lichen; and sixteen index labels were re-painted and rendered brighter. Free-hand labels were also neatly written out for the model showing cross-pollination in the Systematic Botany Gallery, and for six herbarium specimens of *Fumaria parviflora* in the reserve collections. As many as 1,514 index-cards for the herbarium specimens in the reserve collections were prepared.

In the Economic Products Gallery, one hundred and twenty-one new, printed labels were prepared for the exhibits of different kinds of fibres and cereals and the cocoa series was provided with a general, descriptive printed label outlining the different aspects of the industry.

Research.—The subjects in sixteen old photographic negatives were identified. The Curator's work on ferns was completed. The exhibits of "Narasimha chakram" in the Government Museum, Pudukkottai, was got identified for inclusion and description in the proposed guide for that Museum. Variations in temperature within the built-in show cases with internal illumination were studied for ascertaining if any additional safety measures were needed; and completely satisfactory results were obtained obviating such measures.

Publications.—Sri M. S. Chandrasekhar's manuscript of the "Guide to the Principal Exhibits in the Government Museum, Pudukkottai", prepared early in 1962, was brought up to date and sent to the press towards the close of the period under review. Preparation of a Bulletin on the ferns was taken up, and 24 selected specimens were photographed for illustrating the same.

Facilities to research workers and others.—Facilities were afforded to research workers and other during the year as usual. The chief beneficiaries were the Assistant Superintendent, Meteorological Observatory, Nungambakam; the Headmaster, Hindu Theosophical High School, Adyar; Prof. Govindarajan of the Presidency College, Madras; Sri E. R. Narayanaswamy of the Ressons Electric Corporation, Andhra Pradesh; and Sri Thanigaimani of the French Institute, Pondicherry.

Photographs added.—Five photographs illustrating the different stages in the making of a model of the tree of plant classification, and twenty-four photographs of selected specimens of ferns were prepared and added during the year under review.

Plans for the year 1964–65—*Additions.*—A model of the tree of classification of algae will be prepared and added.

Samples of green manures will be added to the exhibits in the galleries.

Improvements to the galleries.—A detachable wooden railing will be erected in front of the built-in show cases in the Economic Products Gallery, as a measure of protection to the costly glass panes.

Lebelling and preservation.—A large, insect proof, cabinet will be acquired for the storage of textiles that bear testimony to the excellence of our indigenous art and industry.

Research.—Illustrations for the Curator's work on ferns will be prepared and the manuscript of the bulletin on the same will be completed.

Publications.—Sri M. S. Chandrasekhar's " Guide to the principal exhibits in the Government Museum, Pudukkottai " will be published.

GEOLOGY SECTION.

Additions to the collections.—Specimens of Fossil crab, tooth of *Hippopctamus* sp., *Archidiskondan* sp. (*tooth*), *Conchypus sp.*, *Pleurotomari sp.*, *Venus sp.*, *Flosculina sp.*, *Nummulities* sp., *Ostrea* sp., *Serpula* sp., *Leptoria* sp., *Discocyclina* sp., *Assilina* sp., Dicot stem and Crude Oil were acquired for this museum as gifts from the Oil and Natural Gas Commission, Dehra Dun. A specimen of rock crystal with needles of tourmaline inclusions was purchased from Sri P. V. R. Naidu. Specimens of ball clay and marcasite were received from the Director, Geology Department, Trivandrum. A specimen of kunkur was presented to this museum by Sri S. S. Sabapathy. Fighteen aquamarine stones were acquired, as treasure trove specimens, from the Joint Collector, Coimbatore. Four chromite specimens were received as gifts from Sri R. Jeyakumar. Two specimens of chalcopyrite associated with different rock types were received as presents from the Mine Superintendent, Mosaboni Mines, Bihar. Specimens of phyllite, cordierite.—charnockite, columbite-tantalite, anorthosite, amphibolite and calc-granulite were received as donation from the Superintending Geologist, Geological Survey of India, Madras Circle. Specimens of light and dark green dunite, dunite with magnesite veins, altered dunite with magnesite vein, kyanite with magnesite and a few magnesite specimens were collected by the Curator from Chalk Hills, Salem.

Additions to tthe galleries.—The following specimens were added to the galleries :—

1. Thirteen soil samples and an amphibolite specimen were added to the exhibits under petrology.

2. A specimen of chromite was added to the exhibits under Refractories.

Improvements to the galleries.—All the exhibits belonging to Economic Geology, except building stones and Radio-active minerals, which were hitherto crowded in the central portion of the Geology Hall, were shifted to the left wing of the mezzanine floor above the Geology Hall and were spaciously arranged. Two hundred and sixty-four mineral specimens and seven fossil specimens exhibited in the galleries were mounted on pedestals made of plaster of Paris. The plaster pedestals on which two rock salt specimens were mounted were renewed as they contained dissolved salts. All the cardboard boxes on which fossils are mounted and exhibited were painted with white zinc oxide powder as the boxes were badly stained. The alkathene sheets on 10 specimens exhibited under South Arcot Lignite were removed and the specimens were enclosed in glass cases. Their pedestals were also suitably painted. The lignite specimen exhibited under General Geology was also likewise enclosed in a glass case. The specimens of peaty soil and peaty mud deposit were mounted on large painted wooden pedestals, enclosed in glass cases and re-exhibited in the gallery. A chart showing the shaft section at pit No. 3 was renovated. Two other charts showing the strata at pit No. 3 and plan and section of subsidence were provided with cut-out-mounts. All the charts and map pertaining to South Arcot Lignite were provided with fresh alkathene sheets. The masonite sheet containing charts and photographs pertaining to South Arcot Lignite was varnished. The railing at the far end of the Geology Hall was varnished. All the soil samples exhibited in the gallery were glass bound after providing an uniform background in the interior of each tray. All the pedestals on which glass bead necklaces were mounted were removed and the necklaces were exhibited on cardboards provided with the necssary background. The photograph of *Trachodon*, the map of the world during the Carboniferous period and the chart showing fossil plants were fixed to the

back (in the anterior side) of the show cases in which they were displayed. Two photographs showing different views of a cement factory and that showing ruby mining were provided with decent background, re-bound with bigger glass panes and were re-exhibited in the galleries. The routine work such as cleaning and dusting the show cases, replacing broken glass panes, etc., was carried on as usual.

Labelling and preservation.—Eighty-six sub-index labels in the various galleries were repainted. All the sub-index labels (4) for Madras soils were painted as Soils and refixed in the gallery as the specimens exhibited included soils from other States also. The Tamil and English labels for Marbles and Serpentinous stones were repainted and refixed in the gallery. An index label was provided for a cubical granite specimen. Bilingual descriptive labels were provided for the Brontosaurus specimen and for the huge quartz specimen. A glass-bound bilingual label was provided for the specimen of chromite exhibited under ores of common metals. All the hand-written, unbound, sub-index labels in the show cases containing specimens of ores of rate and common meals were replaced by printed and glass bound ones. Fresh bilingual labels were provided for the charts exhibited in the South Arcot Lignite Gallery. 352 geology labels were printed in duplicate and sent to the Curator, Government Museum, Pudukkottai. Four rock salt specimens in the various galleries were preserved. Index cards were prepared for 574 specimens exhibited in the various galleries and for 524 mineral spcimens in the reserve collection.

Work in the section.—(1) A specimen offered for sale by Sri P. V. R. Naidu was identified as rock crystal containing needles of tourmaline inclusions. (2) A green specimen received from the District Revenue Officer, Madurai, was identified as glass and the same was returned to him. (3) A specimen presented to this museum by Sri S. S. Sabapathy, was identified as kunkur. (4) Two specimens in the reserve collections were identified as blue chalcedony and orpiment with realgar respectively. (5) Sketches were prepared for modernizing the central portion of the Geology Hall.

Facilities to research workers and others.—(1) Information on glacial periods in India was furnished to Dr. Sundar Raj, retired Director of Fisheries, Madras. (2) A specimen, brought by Sri T. D. Gangtte of Hill Town, Churachandpur P.O., Manipur, was identified as pyrite associated with limestone. Its uses were also explained to him. At his request the precious and semi-precious stones, gold and iron ore specimens in the galleries were shown to him. (3) Fifteen specimens brought by Sri T. D. Rajendran of Sri Krishna Match Works, P. B. No. 53, Sivakasi, were identified as opal, tourmaline, jasper, garnet (3), gypsum (3) and calcite (6). (4) Information on abrasives was given to Sri R. Swaminathan from 2, Vallaba Agraharam, Triplicane, Madras-5. (5) The rock type of 29 sculptures in the Jain Gallery of this Museum were identified for Sri P. R. Srinivasan for his pubication. (6) A specimen given by Sri Devasahayam, Assistant Curator, Anthropology Section was identified as cat's eye and the same was returned to him. (7) Copies of 40 geological photographs and a chart were sent to the Curator, Government Museum, Pudukkottai, for exhibiting thtem in that Museum.

Tours.—The Curator undertook a tour to the Chalk Hills, Salem and collected specimens of dunite, magnesite and kyanite with magnesite.

Plans for the year 1964–65—*New additions to the collections.*—Agate with amethyst crystals and banded chert will be added to the collections.

Additions to the galleries.—A specimen of dunite will be added to the exhibits pertaining to rocks.

Improvements to the galleries.—Efforts will be made to modernise the central portion of the Geology Hall.

Labelling.—All the index labels for stratigraphy will be painted as Fossils. Bilingual labels will b eprovided for some more specimens. The hand-written abels for Meteorities will be properly translated and replaced by printed ones. As usual, the old labels in the various galleries will be renewed as far as possible.

ANTHROPOLOGY SECTION.

1. *Additions to the galleries.*—The following Ethnographic materials were added :—

Fourteen leather shadow play figures from Malaya.
Two bust models of Toda male and female.
One fire drill of Yenadis.
Two bamboo combs of Kadar.
One rat trap of Kadar.
One bamboo vessel, a bamboo purse.
One bamboo waist band from Malasars.

Pre-historic materials.—Thirteen megalithic burial potteries from Tenkasi four porcelain sherds from Tranquebar, one neolithic celt from Tenkasi, 12 microliths from Birbhanpur, 19 plaster cast replicas from Mohenjodaro and Harappa cultures, 3 bits of sherds and one stud for mosaic from Ur of Chaldees, one bit of blue enamel brick and one mortar piece from Babylon, 3 Adichanallur burial urns from the Museum Branch, Indian Museum, Calcutta.

Musical Instruments.—One Russian musical instrument (Rhabob).

Gold articles.—One Veera Srinkhala (a gold bracelet) got as a gift from the late Kunhan Rajah.

2. *Work in the galleries.*—The Ethnological and Musical Instruments galleries were rearanged due to additional space being available. The old Saivite and Vaishnavaite Bronze Galleries were utilised to display Ethnographic specimens, physical types of Indian tribes skull types and foreign culture materials.

The following musical instruments, Rhabob (a Russian stringed Instrument), Damarukam, Indramoo, Panchamukha Vadyam, and Temple drum (all percussion instruments) were rearranged in a new case in the galleries. Six stringed instruments were rearranged in a vertical case.

Improvements to the galleries.—A masonite and a khadi cloth screens were put up to cover the gap behind the Meriah sacrific post. Two masonite screens were also put up by the side of the skull type cases in the Physical Anthropology Gallery.

Cases of the Mohenjadaro, Prehistory and Physical Anthropology galleries were distempered to give a better appearance. Faded and deteriorated labels in the galleries were renewed.

Preservation of reserve collections.—Materials which needed chemical and preservative treatment were sent to the Chemistry section for preservation.

Research.—The Section continued its work on the Adivasis of Tanjore.

Lectures.—The guide appointed during the year was given training in the section. 12 lectures were delivered to the students of the Diploma course in Anthropology by the Curator. One lecture was delivered to the students of M.A. course in Achaeology and Ancient History by the Curator. A lecture was given at the British council by the Curator on "The missing link", at their invitation.

Facilities to research workers.—The following scholars were provided research facilities : (1) Sri C. J. Jayadev, to study South Indian Talis, (2) Dr. Ludmila Shaposhnikova of U.S.S.R. to study materials and literature on Todas of Nilgiris, (3) Sri G. Srinivasan, Kambakkam, to study the prehistoric collections of the Museum, (4) Kumari Meera Mukerjee, Anthropological Survey of India, on metal casting and Arammula mirrors, (5) Sri A. Swamy, research student, University of Madras, to study megalithic collections, (6) Sri Noboru Karashima, research fellow, University of Tokyo, on Todas and Nilgiris cairns, (7) Mrs. Rukmini Devi on South Indian Jewelleries, (8) Sri Venkataramayya, Superintendent, Archaeological Survey of India, Visakhapatinam branch to study Arikamedu and Perumbair potteries, (9) Miss. Anneviboke Simonsen of Denmark on tribal religion, (10) Sri H. D. Parkar, Research student, School of Archaeology, New Dhlhi, to study megalithic culture materials from South India, (11) Mr. Bradley Blake, University of Wisconsin, Wisconsin, U.S.A., to study fishing communities in South India, 12) Sri Ramanamurthy, Central Leather Institute, Adayar, on leather shadow play figures of

India and Malaya, (13) Sri L. A. Krishna Iyer, Palghat, to study literature available on Kerala tribes, (14) Sri Dilip Guha, Curator, Indian Museum, Calcutta to study Attirampakkam palaeolithic stone tools.

VIII. *Publications.*—The printing of the English guide book to the Anthropological galleries is nearing completion.

IX. *Tours.*—A study tour was undertaken by the Curator to Anamalai Hills. The Curator visited Kambakkam cave site with Dr. K. D. Banerjee.

Photographs added.—Twenty-nine half-size negatives, twenty-seven quarter-size negatives and thirty-six film (2½×2½) negatives were prepared.

Plans for the year 1964–65.—(1) Completion of the modernisation in the Kathakali and Ethnology galleries, (2) Adding more exhibits to the physical Anthropology gallery, (3) Display of some regimental costumes in the ggalleries, (4) Rearranging the prehistory gallery.

NUMISMATICS SECTION.

New Additions—(*a*) *By Treasure trove.*—27 silver East India company coins (William IV Rupee—10, William IV Half Rupee—5, Queen Victoria Rupees—6, Half rupees—4, and quarter rupee—2) from Kadambakurichi village, Karur taluk, Tiruchirappalli district.

(*b*) *Purchase.*—(1) Two coins of Rajendra Chola, one with Sri Rajendra and the other with Gangaikonda Chola titles, three Ceylon coins with Sri Lanka Vibhu, Lakshmi and Iraka legends, one coin of Gangayadeva of the Kalachuri dynasty, one Gajapathi pagoda and one Hoysala Panam—all gold—from Shri S. R. Narayanan, Madras, (2) Three silver, one potin and 39 copper coins belonging to the Indo-Greeks, Romans, Chera, Konguchera, Chola, Pandya, Indo-Dutch and Satavahana from Shri S. Arumugham, Tiruchirappalli. (3) Two hundred and twenty-five rectangular copper Pandyan coins with various motifs and 221 South Indian copper coins from Shri S. Doraiswamy, Madurai. (4) Fifty-one rectangular copper Pandyan coins from Shri A. Raghavan, Palayamkotai.

Work in the section.—Treasure trove coins sent by District Revenue Officers and other coins added by purchase were examined, identified and entered in the Accession register.

Research.—The Curator studied a big collection of late South Indian copper coins belonging to this Meseum, to the Pudukkottai Museum, the collections at the office of the Government Epigraphist at Ootacamund and a few private collections with a view to writing a monograph. The coins were studied in detail in collaboration with Shri P. R. Srinivasan, Superintendent for Epigraphy, Ootacamund and the manuscript of the catalogue has been prepared.

Publications.—Rrof. T. Balakrishnan Nayar's bulletin on the Dowlaishwaram hoard of Chola and Eastern Chaalukyan coins has been entrusted to M/s. Sholar works for printing.

Shri T. G. Aravamudhan's Catalogue on Roman coins has been sent to the Government Press for printing.

Photographs added.—Three half-size photographic negatives were added.

Tours.—The Curator went on tour to Rajavur, Kanyakumari district to examine the coins and stamps collection of Father Hilary and to Padmanabhapuram to study antiquities and other collections in the Museum there.

Plans for the year 1964–65.—A set of metal casts of selected coins of the important dynasties will be prepared for display in the gallery. These will be supplemented by charts and photographs. Medals will be exhibited in original.

A new Philately section will be opened in the Museum.

Publications.—The preparation of the catalogue of Caliphate coins by Prof. Azamatullah Khan and the Nayak coins by the Curator will be completed.

ARCHAEOLOGY SECTION.

Addition to the collections.—(1) Twelve miscellaneous objects were purchased from a local dealer. (2) A set of 10 Terracottas from Paharpur, were received on loan from the Director-General of Archaeology in India, New Delhi. (3) Buddha (stone), standing from Tiruvalanuli, Kumbakonam taluk, Tanjore district. (4) Agastya (stone) seated from Tiruvalanjuli, Kumbakonam taluk, Tanjore district. (5) Rectangular tone slab with inscriptions in old Pallava Grantha characters from Tandanthottam, Tanjore district, (6) Mahavira (stone) seated from Kolivakkam, Chingleput district. (7) Mahavira (stone) seated from Valatottam, Chingleput district. (8) A granite stone with Saptamatrikas from Suchindram, Kanyakumari district. (9) A set of two etchings were presented to the Museum by Mr. Johannes Brauer. (10) Copies of mural paintings from rock cut cave temples, Tirumalaipuram, Tirunelveli district and Tirupurangode Siva temple, South Malabar. (11) Balakrishna (Navanithakrishna) (bronze), from Kottai Therudu, Tenkasi taluk, Ramanathapuram district. (12) Two Balakrishna's (Navanithakrishna) (bronze) from Sothukudi taluk, Ilayangudi, Ramanathapuram district. (13) Three gold pieces from Pudukkottai, Sathur taluk, Ramanthapuram district.

Work in the Galleries.—The bronzes in the old bronze gallery were shifted to the newly constructed Bronze Gallery. The Vaishnavite and Saivite metal images were arranged in two separate rows in the ground floor while the Jain, Buddhist and Saivite images were exhibited in mezzanine floor. The construction of modernised built-in-cases in the Metalware gallery was completed and all the cases have been provided with concealed fluorescent lighting.

Labelling.—(1) General Bilingual labels have been fixed for the scripts Bay in the New Extension Gallery. (2) Faded aluminium labels in the New Extension Gallery have been replaced by new labels printed on ivory card boards. (3) All the 10 bays representing different periods in the development of Sculpture in the New Extension have been provided with bilingual labels. (4) Labels in Amaravati Gallery have been renewed. (5) Individual labels for the Emobossed copper plates in the Me talware Gallery have been prepared and fixed in the case. (6) Bronzes from Indo-China and Indonesia have been exhibited in the Metalware Gallery and individual labels are provided for the above exhibits. (7) Index cards have been prepared for bronze and wood carvings.

Research.—The Curator continued his research on copper plate grants in the Madras Museum. The Index for "Nolamba sculptures in the Madras Museum", a Museum publication, was prepared by the Curator.

Publications.—(a) "Bronzes of South India" by Sri P. R. Srinivasan was released on the opening day of the New Bronze Gallery in September 1963. (b) Nolamba sculptures in the Madras Museum is in the press and is nearing completion. (c) A set of 30 miniature replicas of Vadakuppanayur Rama and Sita has been prepared, and are ava available for sale.

Lectures and Educational Activities.—The students of the Diploma course in Archaeology conducted by the Archaeological Survey of India and the Post-graduate students of Indology from the Benares Hindu University were taken round the Archaeological Galleries and a lecture was delivered to them.

The Epigraphist, Hindu Religious and Charitable Endowments was given training in Archaeology for 15 days.

Facilities for research scholars and others.—The following scholars were given facilities on the subjects indicated against each :—

(1) Sri P. R. Srinivasan, Superintendent for Epigraphy, Ootacamund—Jain sculptures,

(2) Sri V. R. Mani, Research Fellow, Ministry of Education, Government of India—Minor deities in the Madras Museum.

(3) Sri K. V. Raman, Technical Assistant, Archaeological Survey of India, Madras-9—Terracottas in the Museum,

(4) Sri William Willets—Buddhist anttiquities from Sankaram, and

(5) Sri B. N. Misra, Junior Keeper, Nagarjunakonda—antiquities from Nagarjunakonda.

Tours.—The Curator visited Pondicherry and made a selection of photographs from the photo collection of the French Institute of Indology. One hundred and eighty photographs have been received from the Institute in the first instance.

Plans for the year 1964–65—(*A*) *Work in the galleries.*—(1) Organising a gallery for Nagarjunakonda models, in the Centenary hall, by effecting a wooden partition in the centre of the hall. (2) Arranging and labelling the wood carvings in a better and more attractive way. (3) Providing two descriptive labels in Tamil for the Vaishnavite and Saivite bronzes in the Bronze gallery. (4) Renovation of labels in the Jain Gallery and Amaravati Gallery. (5) Indexing the remaining exhibits. (6) The paintings in Picture Gallery will be provided with frames. (7) Curtains will be provided for the windows in the Bronze Gallery. (8) Uniform labels for the exhibits in the Bronze Gallery will be prepared.

Publications.—(1) Reprinting of the following publications will be completed :—

(*a*) Indian Epigraphy and South Indian Scripts; and

(*b*) Nagapattinam and other Buddhist bronzes in Madras Museum.

(2) The following will be ready for publication :—

(*a*) Monograph on " Jain sculptures in the Madras museum ";

(*b*) Catalogue of Copper Plate Grants in the Madras Museum; and

(*c*) Catalogue of " Stone sculptures in the Madras Museum ".

National Art Gallery.

Acquisitions.—The acquisitions made in the year under review are the following :—

(1) Mahatma Gandhi—A painting by Sri K. V. Vaidyanathan (with Bhagavad Gita).

(2) Portrait of Sarojini Naidu—A painting by Sri K. V. Vaidyanathan.

(3) Portrait of Balagangadhara Tilak—A painting by Sri K. V. Vaidyanathan.

(4) Portrait of Rt. Hon'ble V. S. Srinivasa Sastri—A painting by Sri K. V. Vaidyanathan.

(5) Graphic design—A painting by R. Krishna Rao.

(6) Self study—A painting by A. K. Rajavelu.

(7) He buffalo—A painting by H. V. Ramagopal.

(8) Balcony—A painting by Anthony Dass.

(9) Kovalan and Madhavi—A painting by S. Murugesan.

(10) The Festival—A painting by P. B. Surendranath.

(11) Woman and Beast—A painting by L. Munuswami.

(12) Bahadur Shah—A portrait by Gopikrishna Varma.

(13) Mountain scape—By Henry Daniel.

(14) Yellow moon and the machine—Paintaing by A. S. Jagannathan.

(15) Fantasy II—A painting by R. Varadarajan.

Work in the galleries.—(1) Several labels were renewed. (2) Curtains were provided for the windows in Hall II, wherein these specimens of Kalamkari cloths are on display. (3) Four new wall cases were constructed and installed for displaying the paintings presented by Sri V. T. Krishnamachari. Two meetings of the National Art Gallery Committee were held, on 4th May 1963 and 8th February 1964 or purchase of paintings for the National Art Gallery.

Plans for the year 1964–65—(*A*) *Work in the gallery.*—(1) Remounting of Mughal paintings in the National Art Gallery central cases. (2) Exhibiting the paintings presented by Sri V. T. Krishnamachari in the newly constructed wall cases. (3) Curtains will be provided for the bronzes displayed in the central hall. (4) Conversion of the rear room of the National Art Gallery into a modern Art Gallery (upstairs). (6) Carrying out of thorough repairs and distempering, etc., in the National Art Gallery.

(*B*) *Publications.*—(1) A revised edition of the "Guide to the National Art Gallery" has been prepared and the Government sanction is awaited for printing the same. (2) The preparation of the monograph on the Mughal paintings and Rajasthani paintings presented by Sri V. T. Krishnamachari will be taken up.

EXTRACTS FROM THE DISTINGUISHED VISITORS BOOK KEPT IN THE NATIONAL ART GALLERY.

Date. (1)	*Name.* (2)	*Remarks.* (3)
9th March 1963	J. R. Jayawardene, Ward Place, Colombo, Ceylon.	I was very interested in all I saw.
18th May 1963	Smt. and Sri D. Mookerjee, Chief Engineer, Koshi Project.	Interesting visit.
16th July 1963	Sr. Johenna Becker, College of St. Benedict, St. Joseph, Monnesoota, U.S.A.	Very fine collection well displayed.
16th July 1963	Naomi Townsend, Tongaloo College, Tongaloo Missiseppi, U.S.A.	An excellent collection.
4th August 1963	H. Schlieker, West German Consulate, Madras.	A place of worship for me.
24th August 1963	Albert B. Franklin, U.S. Consul-General, Madras.	Shall be back many times.
22nd October 1963	Sia Ram Gupta, Commissioner of Police, Jaipur, Rajasthan.	A rare pleasure for me to have seen the gallery and its collection.
29th October 1963	Dr. Koto Matsudaira (with Mrs. Marite Matsudaira) Ambassodor for Japan in India, New Delhi.	Magnificient collection, especially bronzes. Glory of India.
9th January 1964	Rene Vehrli, Director, Museum of Fine Arts, Zurich, Switzerland.	With many thanks for your kindness.
22nd January 1964	Andre Fontaine, 4 Monde, Paris	I wish all my best to this very interesting gallery.

CHEMICAL CONSERVATION SECTION.

The outstanding event of the year under review was the opening of the additional two storied block for the Laboratory on September 16th, 1963, by His Excellency the Governor of Madras. This marks the second significant phase in the development of the section, the first being the time when it moved into the older block in the early 1930's and commenced Conservation work on a systematic basis for the first time in an Indian Museum. Along with the additional block, the section has also acquired much new equipment, the important ones among such equipment being the selenium rectifier, the gas plant, thte Manesty water still, the air oven, the Philips conductivity meter. An air-conditioned room is also part of the new extension, such a room being intended for study and preservation of antiquities of organic material and of paintings. In the course of the year, the selenium rectifier, the gas plant and the water still were installed.

In spite of the section having to concentrate on the work of the expansion of the Laboratory, the routine work of conservation was carried on. Seven bronzes were treated electrolytically and preserved. Four bronzes are under treatment.

Forty-two lead coins and 450 copper coins were chemically treated. The copper coins had to be de-waxed carefully before treatment. One chain armour of iron which had rusted heavily was treated and cleared of rust. Then it was given a coating of double boiled linseed oil for protection against rusting. One silver bangle so heavily covered with corrosion crusts as to look like a copper object, was treated chemically and restored.

The Nagakkal in the New Extension Hall, which was in two parts cleaned and put together using Furacin cement. Six pottery pieces were cleaned of dust by using 5 per cent Lissapol solution.

Twenty-one wood carvings were treated for removing the tarry materials covering them; and were then given a suitable protective coating. Six leather shadow figures were coated with castor oil in rectified spirit for preserving them.

The Curator went officially to the Tanjore Art Gallery between 13th and 18th May 1963 and studied the condition of the bronzes in that gallery and submitted a report on the preservative treatment to be given to them. The report was sent to the Collector of Thanjavur who is also the Chairman of the Art Gallery Committee.

The Curator, Sri N. Harinarayana, was invited by the Department of Museology, Boroda University to give two lectures on " The Problems in the conservation of Indian sculptures " which he did on February 19th and 20th at Baroda. The Curator also gave tour lectures to the students of Archaeology of the Madras University between 21st and 24th January 1964.

Dr. H. J. Plenderleith, Director of the International centre for the Preservation of Cultural Property at Rome visited the laboratory on 31st January 1964 and showed keen interest in its set up and the work done here.

The Microfilming Unit, attached to the Section, has been having heavy work during the year. Sixteen research scholars and departments availed of the facilities, provided by the unit. There has been a regular flow of orders for having books and documents microfilmed for research purposes. This is so in spite of the fact that for sometime work was held up because of repair to the equipment. The microfilming techniques have been greatly developed and refined in the course of the year.

Research and publications.—(1) The use of " Furacin ", a new synthetic cement, was introduced for repairing broken stone objects. Its durability and strength is under observation.

(2) A painting examination stand was designed based chiefly on that of the Swiss National Museum but with modifications in the shape of a worm gear system for easier manipulation of the stand.

Children's Section.

Additions to the collections.—The following were added to the Children's section collections :—(1) An enlarged model of dissected fish. (2) An enlarged model of dissected garden-lizard. (3) One scale model of the captve Ascent of Montgolfier and sand hour glass which were acquired on a loan basis from the Science Museum, Kensigton, London.

Work in the gallery.—The Children's Gallery exhibits which were formerly housed on the mezzanine floor of the Geology Gallery, were shifted to the mezzanine floor of the new natural history block, which affords more space for addition of exhibits. Before this gallery was opened to the public, all the show-cases were repainted and new labels were provided The plant kingdom exhibit was completed and transferred to the Gallery. The Gallery continued to be popular with school children and the special programme of guided tours for school children was continued this year.

Photographs added.—Two photographs taken on the occasion of the opening of the New Natural History Block (Children's Gallery) were added.

Plans for the year 1964–65.—The doll's house which had been purchased in 1962 will be exhibited in the gallery. (2) A few good specimens of Child Art (Paintings) will be acquired and exhibited in the gallery. (3) The work of preparing a Guide to the Children's Gallery will be taken up. (4) It is also proposed to add a quiz board to the gallery exhibits.

GOVERNMENT MUSEUM, PUDUKKOTTAI.

General—Visitors.—The number of visitor during the year 1963-64 was 89,809 with a daily average of 313, which includes both males and females, literates and illiterates (Appendix I).

On 29th April 1963, Sri S. Rajendran, D.I.G., Tiruchirappalli, on 29th May 1963, the Revenue Divisional Officer, Tiruchirappalli, and on 8th January 1964, Srimathi Mathuram Bhoothalingam, wife of Sri S. Bhoothalingam, I.C.S., Secretary, Finance, Government of India, New Delhi, paid their visits to this Museum, and appreciated the remarkable collections and display of this Museum.

Extra-Mural activities and assistance to educational institutions.—The assistance to the educational institutions in and around Pudukkottai was afforded as usual, and about 27 institutions were the beneficiaries therefor (Appendix II). Facilities were given to all research scholars and others as usual. In the month of November 1963, at the request of the Sub-Collector, Pudukkottai, the Curator accompanied Sri R. Chockalingam, Collector, Tiruchirappalli district, to Sittannavasal and interested him in the archaeological importance of the Jain cave-temple and its frescoes. On 6th, 7th and 8th of January 1964 the Curator accompanied Mrs. Bhoothalingam, Secretary, Finance, Government of India, to the most important and interesting Archaeological sites like Kodumbalur, Kudimiyamalai, Narthamalai, Kannanur, Thirumayam, Nalayakkoil and Peraiyur. On 16th November 1963, the Curator inaugurated the History and Economics Association in His Highness The Rajah's College, Pudukkottai, and delivered a lecture on " Man in Society ". At the request of Dr. A. Aiyappan, Professor of Anthropology, Utkal University, a set of Boomerangs, Picotah and Thalie (silver) was made after the Pudukkottai Museum exhibits and supplied to him by the Curator.

Galleries, buildings and gardens.—There was a regular and proper re-arrangement of the show-cases in all galleries. A number of show-cases were provided with wooden basement panelling. About six vertical show-cases in the Zoology and Botany sections were provided with single glass fronts with the assistance of the Government of India grants. All the show-cases were thoroughly cleaned and some of them were rendered insect proof. A number of old and colour faded labels were renewed.

As the present Museum building is without much safety, a list of urgent indispensable repairs and improvements to the present buildings have been submitted to the Executive Engineer, Public Works Department, Tiruchirappalli, for submitting the estimates, which are still awaited from the Executive Engineer. Electric lights were provided to the dark corners of the galleries so that the public can see and study the specimens clearly. About five tube lights (4 feet) were provided in the Cochin Mural paintings gallery and Epigraphy section in the place of ordinary Electric lights. A water-tight fitting light has been provided to the side path of the Museum in the western side for enabling the watchmen to keep vigil in the nights.

The main, central wooden sign board in front of the Museum at the entrance has been replaced by a metal sign board.

The gardens were improved considerably and they maintain their charm and usefulness. An open yard in the centre of the garden has been created for enabling the school students to spend their little leisure time when they visit the Museum.

Work in the section—Natural History—Geology.—The exhibits in the Geology gallery were re-arranged according to their proper classification. About 40 photographs of geological interest (6 inches by 4 inches) were exhibited on both sides in the central vertical panel of the Geology sloping cases, which were received from the Government Museum, Madras.

Zoology—Insects.—All the insect specimens have now been displayed attractively in a vertical position in a newly constructed panelled modernised case made with financial assistance from the Government of India grant.

Fishes.—The old and unidentified fishes were removed from their jars, and transferred to the Madras Museum, for identification and storage. The jars thus released were utilised for the fresh fishes purchased from the Biological House, Madras. The following are the fresh specimens of fishes newly purchased :—

(1) *Alectis indica.*
(2) *Antennarius hispidus,*
(3) *Astrape dipterygia,*
(4) *Belone strongylurus,*
(5) *Caranx leptolepis,*
(6) *Chorinemus moodetta,*
(7) *Cynoglossus elongatus,*
(8) *Elops saurus.*
(9) *Hemiramphus far,*
(10) *Psoudorhombus triocellatus,*
(11) *Stromateus cinerus,*
(12) *Teuthis oramin.*
(13) *Therapon jarbua,*
(14) *Upenoiodes vittatus,*
(15) *Pterois russelli* and
(16) *Sillago shiama.*

The wall cases (2) containing dry specimens of bony fishes were provided with single glass fronts with the assistance of the Government of India grant.

Reptiles.—The vertical case containing wet specimens of snakes has been provided with a single front glass pane with the aid of Government of India grant and the specimens exhibited with fresh labels.

A Rat snake (length about 7 feet 3 inches) and a Cobra (length about 3 feet 6 inches) have been purchased and added in the gallery after proper wet preservation.

Mammals.—The cases in the Mammal gallery were now neatly arranged all along the available wall space. A new specimen of Pangolin, about 3 feet 6 inches in length has been purchased and is kept ready for exhibiting in the gallery. Estimates were obtained for providing the six almirah type cases containing Rodents, Carnivores, etc., with single glass fronts and panelled bases and submitted to the Superintendent, Government Museum, Madras, for obtaining Government sanction.

Cochin mural paintings.—The old big painted Tamil labels beneath the Mural frames were replaced by neat, small and uniform labels. Three tube lights (4 feet) were newly provided for proper and uniform light in the gallery.

Arts and Industries.—The newly framed Sittannavasal Mural photographs have been provided with suitable main captions to distinguish them from Ajanta and Sigiriya fresco pictures exhibited directly above.

Epigraphy.—Two tube lights (each 4 feet) were provided in the place of ordinary light for proper lighting and easy reading of the copper plates and palm leaf gazetteer of Pudukkottai State.

Archaelogy. Stone sculptures gallery.—Among the three newly acquired sculptures, Jayestha Devi and Hero stone were erected on masonary pedestals in the verandah.

Bronze gallery.—The Bronze section was completely rearranged. The overcrowded bronzes were removed and put in the reserve collection. The bronzes were re-arranged according to their proper iconographic sequence.

Library.—About forty-one books were added to the Library making up the total volumes to 1166. It embraces all the sections pertaining to a general Museum. It continued to serve the Curator and his staff and the interested public with the same usefulness and importance as before.

Equipments including furniture and fittings.—The work of gradually re-modelling the old and antiquated show cases, was further pushed through. A 2T feet semi-vertical modernised show case has been provided newly in the Insect gallery. Two vertical show

cases in the bird gallery, two vertical show cases in the fish gallery, one bureau show case in the reptile gallery and one bureau show case in the botany gallery were provided with single glass front doors.

The building has been fully equipped with 8 Fire extinguishers and 18 Fire buckets, purchased from Messrs. Parry and Co., Private, Limited, in accordance with the instructions issued by the Senior Fire Officer, Pudukkottai.

The 12 bore double barrel breach loading gun is being maintained in good condition and put in use towards the collection of zoological specimens. A 12 bore single barrel muzzle loading gun exhibited in the gallery has been taken and put into use after getting licence for the same. A Remington Rand portable typewriter has been obtained from the Director of Stationery and Printing in place of the old unserviceable portoble typewriter returned to the Director of Stationery and Printing.

Tours.—On 9th, 10th and 13th of August 1963, the Curator undertook a tour to Tiruvarankulam, Kodumbalur and Sittannavasal, with the Superintendent, Government Museum, Madras for collecting birds to the Museum. A study-*cum*-training tour to the Madras Museum was undertaken by the Curator from 6th September 1963 to 18th September 1963. On 22nd January 1964 and on 10th March 1964, tours were undertaken by the Curator, to Kodumbalur and its neighbouring places to prepare a list of loose sculptures lying uncared for.

Research and publications.—An illustrated guide in Tamil to the Principal exhibits of Pudukkottai Museum was written and about 1,000 copies were printed at the Madras Museum Press, and offered for sale to the public at 10 nP. each.

Two historical Tamil articles on " Ramagupta " and " Indian Napolean " written by the Curator, Government Museum, Pudukkottai were published in the Tamil Literary Magazine " Tamil Poshil " in the month of April 1963 and June 1963.

General.—The Superintndent, Government Museum, Madras, inspected this Museum from 6th to 14th August 1963, and made valuable suggestions for improvements of the gallery on modern lines. All his suggestions and instructions, except a few were carried out, when the period under review drew to a close.

All essential chemicals and glass jars for preservation and Taxidermy were made available in the Technical stores.

Plans for the year 1964–65—*Geology.*—(1) Providing a sloping case on the Eastern side, similar to the one on the western side, for accommodating important minerals and rocks. (2) Mounting about 16 photographs of Geological interest in the remaining frames in the central sloping cases. (3) Replacing the typewritten labels with printed labels.

Zoology.—(1) Providing a single glass front door for the five almirahs in the invertebrate gallery and bird gallery. (2) Replacing the stuffed specimen of Cobra with a fresh one. (3) Remodelling all the almirah type shoaw cases in the bird and mammal gallery.

Botany.—Modernising the entire series of Herbarium cases by displaying them in a semi-vertical fashion on a teak-faced plywood panelled base.

Anthropology.—Displaying the newly acquired Ethnological photographs (12 inches by 10 inches) in a prominent way in the gallery.

Archaeology.—Exhibiting the photographs vertically on the wall, which are now placed on the rear side of Natesa show case in the Bronze Gallery.

General.—(1) Converting the tiffin shed into a room for using as a laborotory. (2) Constructing a wall to protect the verandah housing the whale skeleton, from sun and rain. (3) Providing iron bars to the verandah housing the wood carvings on the rear side of the building for safety and protection. (4) Providing iron bars to the windows in the Curator's room, for safety and protection. (5) Purchasing and fixing a water cooler at the entrance for the visiting public. (6) Repainting the sign-board of the Archaeological galleries. (7) Acquiring a new and suitable vacant site for constructing a new building for the present Pudukkottai Museum.

S. T. SATYAMURTI,
Superintendent, Government Museum, Madras-8.

Connemara Public Library (Exchanges).

The number of institutions sending their journals in exchange for the Museum Bulletin was 189 and the number of publications received from the institutions was 467 fascicules of 282 periodicals.

APPENDICES RELATING TO GOVERNMENT MUSEUM, MADRAS.

APPENDIX I.

Complete list for the year 1963–64 of treasure trove coins in the Madras State.

(A) Acquired by the Museum.

Treasure trove number.	*Accession number.*	*Particulars.*	*Metal.*	*Number found.*	*Number recovered.*	*Number acquired.*
(1)	(2)	(3)	(4)	(5)	(6)	(7)
770	926	Rupee, half rupee, quarter rupee coins of William IV and Victoria.	Silver ..	199	199	27

(B) Not Acquired.

755	..	Small gold coins and one gold ornament.	Gold ..	372	..	..
761	..	Silver coins	Silver ..	56	..	..
762	..	Small gold coins	Gold ..	12	..	..
765	..	Gold and copper coins ..	Gold and copper.	10	..	..
771	..	Gold coins	Gold ..	11	..	..

APPENDIX II.

List of treasure trove finds from the Madras State.

ARCHAEOLOGY.

(A) Acquired by the Museum.

Treasure trove number.	*Accession number.*	*Description.*	*Place.*
(1)	(2)	(3)	(4)
764	478	Balakrishna	Kottai Theradu, Ramanathapuram district.
764	479	Balakrishna (Navanithakrishna)	Sothukudi, Ramanathapuram district.
764	480	Balakrishna (small)	Do.
764	481	Three big perforated Balls	Do.
764	482	Four small perforated Balls	Do.
764	483	One Bowl	Do.
767	1510	Buddha (stone)	Tiruvalanjuli, Thanjavur district.
768	1511	Agastya (stone)	Do.
769	1512	Slab with Inscriptions	Tandantotham, Thanjavur district.
772	1515	Saptakannikas in one slab	Suchindram, Kanyakumari district.
773	1466	Three gold pieces	Pudukkottai, Ramanathapuram district.

(B) Not acquired.

Nil.

APPENDIX II (A)

ANTHROPOLOGY.

Treasure trove number. (1)	*Accession number.* (2)	*Description.* (3)
	Acquired by the museum.	
	Nil.	
	B. Not acquired.	
759	9 (nine) gold ear rings and one thin circular disc. gold.	Neyveli, Cuddalore, South Arcot district.
760	Silver string—two bits necklace small—three Nos. Small coins of the size of dhall—21 Nos. Dhattai —2 (3) pieces. Coral beads—17 Nos. Earchain small—one No.	From Thanjavur district.
763	Copper broken cup with lid chin—1—gold half inch thick rod gold one inch thick rod gold 2½ inch thick rod gold block gold chain, Melted coins.	Village—Tiruppalaikudi Tiruvadanai taluk, Ramanathapuram district.
766	Meludu Bedi kappu—Head wearing a Thirumangalium and kandu gold pieces.	Urgudi village, Nannilam taluk Thanjavur district.
774	One broken gold chain and one bit of gold moguppu.	Vemporapatti village, Dindigul taluk, Madurai district.

APPENDIX III.

Other notable additions to the collections during the year 1963–64.

ZOOLOGY.

Serial number and Accession number.		*Particulars.*
1	10/1963	The White Peacock (*Pavo cristatus*).
2	14/1963	The Sacred Chank, Sinistral (*Xancus rapa*).
3	19/1963	The Spotted-billed Pelican (*Pelicanus phillipensis*).
4	5/1964	The Cheetah skin (*Acinonyx jubatus*).
5	9/1964	Two Mural paintings for Fish Gallery.

BOTANY.

Serial number and Accession number.	*Particulars.*
1	A model showing the principal divisions of the plant kingdom.
2	Fumaria parviflora.
3	Ophioglossum pedunculosum.
4	Azolla pinnata.

APPENDIX III—*cont.*

Other notable additions to the collections during the year 1963-64—cont.

ANTHROPOLOGY.

Serial number and Accession number.	*Articles.*	*Particulars.*
(1)	(2)	(3)
1 2/63 to 15/63	14	Malayan Leather shadow play figures.
2 16/63 and 17/63	2	Tribal busts.
3 1/63 to 13/63	13	Megalithic pottery from Tenkasi.
4 14/63 to 17/63	4	Porcelain sherds from Tranquebar.
5 18/63 to 53/63	35	Prehistoric antiquities (stone tools, microliths, neoliths, plaster casts from Mohenjadaro; also antiquities from Ur of Chaladees, Babylon, etc.
6 1699 to 1705	8	South Indian Tribal, Ethnographic materials.
7 92	1	One Russian Musical Instrument (*Rabob*).

NUMISMATICS.

Serial number and Accession number.	*Metal.*	*Number.*	*Particulars.*
(1)	(2)	(3)	(4)
1 924	Gold ..	8	Chola, Ceylon, Kalachuri, Gajapathi and Hoysala coins.
2 925	Silver .. Potin .. Copper ..	3 1 } 43 39	Punch-marked, Indo-Greek, Roman, Ancient India, Chera, Kongu Chera, Chola, Pandya, Satavahana and Indo-Dutch.
3 927	Copper .. Do. ..	225 221 } 446	Pandyan rectangular South Indian coins.
4 928	Copper ..	51	Pandyan rectangular coins.

ARCHAEOLOGY.

Accession number.	*Particulars.*
1473/63	Soft paste cup.
1474/63	Oval plate of white glaze.
1475/63	Cup and Saucer (gold austered).
1476/63	White plate with portrait of Alexander in the centre.
1477/63	Italian Majolica jar.
1478/63	German Kandler.
1479/63	Ming vase.
1480/63	Shell (ching).
1481/63	Delft vase.
1482/63	Berlin cup and cover.
1483/63	Belgium pottery.
1484/63	Multan plate.
	(The above items were purchased from a local dealer).
1490/63	Fragment of a carved Brick Terracotta.
1491/63	Small brick with lotus design Terracotta.
1492/63	Fragment of a plaque with torso of a female figure, Terracotta.
1493/63	Fragment of a plaque with upper portion of votive stupa Terracotta.
1494/63	Fragment of a plaque with a boar Terracotta.
1495/63	Fragment of plaque with the bust of a male figure Terracotta.

APPENDIX III—*cont.*

Other notable additions to the collections during the year, 1963–64—*cont.*

ARCHAEOLOGY—*cont.*

1496/63	Plaque with a bird—Terracotta.
1497/63	Plaque with a drummer face (damaged)—Terracotta.
1498/63	Plaque with Boddhisattva Padmapani (beadless)—Terracotta.
1510/63	Buddha, standing from Tiruvalanjuli, Thanjavur District.
1511/63	Agastya, seated from Tiruvalanjuli, Thanjavur District.
1512/63	Rectangular slab with inscriptions in old Pallava characters (Grantha), Tandanthotham Thanjavur District.
1513/63	Mahavira, seated from Kolivakkam, Chingleput District.
1514/63	Mahavira seated from Valatotham, Chingleput District.
1515/63	Saptakannikas from Suchindrum, Kanyakumari District.
1516/63	Paradiesvogal—an etching (Bird of Paradise).
1517/63	Wildpferde (wild horses)—an etching.
1518/63	Mural painting from Tirumalapuram, Tirunelveli District.
1519/63	Mural painting from Tiruparangode, South Malabar.

CHILDREN'S SECTION.

Serial number and Accession number. (1)		*Particulars.* (2)
1	4/63	Enlarged model of dissected fish.
2	5/63	Model of a dissected garden lizard.
3	6/63	Scale model of "The captive Ascent of Montgolfier" (on loan from the Science Museum, London).
4	7/63	Sand hour glass (on loan from the Science Museum, London).

APPENDIX IV.

Visitors to the Museum.

	1962–63.	1963–64.
Total number of visitors	555,111	572,606
Total number on Sundays	121,963	114,882
Total number on Dwadesi day	4,474	3,931
Total number on Kannupongal day	24,159	38,592

Staff.—The following posts were created :—

(1) Eight posts of Gallery Guards.

(2) Two posts of Sweepers.

(3) One post of Watchman.

Photographic work.—The photographer was engaged in taking prints for record and sale to the public. A sum of Rs. 853·15 was realised by sale of prints and enlargements as against Rs. 560·98 during the last year. During the year under report 373 negatives and 1,973 prints and enlargements were prepared.

Tours.—The Superintendent inspected the Government Museum, Pudukottai from 6th to 14th August 1963 and made several suggestions for its improvement. The Superintendent, undertook a tour to Padmanabhapuram from 21st to 24th May 1963 and inspected the Padmanabhapuram Palace and Museum of Antiquities in Kanyakumari district. The Curator for Zoology went to the neighbouring areas of Minjur during May 1963 and also to Mahabalipuram and Vedanthangal during March 1964 for the collection of birds. The Curator for Geology undertook a tour to the Chalk Hills, Salem, and collected specimens of dumite, magnesite and kyanite with magnesite. The Curator for Anthropology undertook a study tour to Annamalai Hills. He visited Kambakkam cave site with Dr. K.D. Banerjee. The Curator for Numismatics (Assistant Superintendent) went on tour to Rajavoor, Kanyakumari district to examine the coins and stamps collection of Father Hilary and Padmanabhapuram to study the antiquities and other collections in the Museum there. The Curator for Archaeology undertook a tour to Pondicherry and made a selection of photographs from the Photographic collections of the French Institute of Indology. Hundred and eighty photographs have been received from the Institute in the first instance.

Museum Theatre.—The Museum Theatre was used for 225 engagements during the year of which 180 were for dramatic performances, etc., and the rest for rehearsals and meetings. A sum of Rs. 6,645 was realised as rent as against Rs. 5,763 in the previous year. A sum of Rs. 459 has in addition been credited to Government as the half share of the fee for the Caretaker's overtime attendance.

Centenary Exhibition Hall.—The Centenary Exhibition Hall was used for 12 exhibitions during the year. A sum of Rs. 565 was realised as rent as against Rs. 403 in the previous year.

APPENDIX V.

List of photo negatives prepared during the year 1963–64.

ZOOLOGY.

	Negative number.	*Size film or plate.*	*Particulars.*
	(1)	(2)	(3)
ZF.	216	½ size	A group of plastic-embedded biological specimens.
	217	,,	Do.
	218	,,	Indian ink drawing of Copepod (Calamus).
	219	¼ size	Collection trip to Minjur.
	220	,,	Flying squirrel (Glaucomys sabrinus in full glide).
	221	,,	Flying squirrel (Landing).
	222	,,	Flying squirrel (ready to spring into a glide).
	223	½ size	External view of the New Natural History Block.
	224	,,	Side view of the lion.
	225	¼ size	Front view (head) of the lion.
	226	,,	Opening ceremony of the New Natural History Block (Governor cutting the ribbon).
	227	,,	Minister and the Governor coming out of the Natural History Block.
	228	,,	Superintendent introducing Curator to the Minister.
	229	,,	Phyllidia multituberculata.
	230	,,	Hippa (mole crab).
	231	,,	Hermit crab with shell.
	232	,,	Whale shark.
	233	,,	Indian ink diagram of the Spiny lobsher (Crustacea).
	234	,,	Paramecium.
	235	,,	The stag horn coral (Madrepora cervincornis).
	236	,,	The large sinistral shell (Pyrula perversa).
	237	,,	Octopus.
	238	,,	The window pane oyster (Placenta placenta).
	239	,,	Holothurian and spider (Nephila maculata).
	240	,,	Queen termite and the egg case of the sacred chank.
	241	,,	Cake urchin (Clypeaster humilis) and scorpion.
	242	,,	Trochus niloticus (Big shell) and shell of a Pearl oyster with pearl.

APPENDIX V—*cont.*

List of photo negatives prepared during the year 1963–64—cont.

ZOOLOGY—*cont.*

Negative number.	*Size film or plate.*	*Particulars.*
(1)	(2)	(3)
Z F 243	½ size	Stick insect (2 views).
244	,,	Mole crab (Albunea) and the Dhobi crab (Gelasimus).
245	,,	Sea pens and Chloeia flava.
246	,,	Robber crab or coconut crab (Burgus latro, side view).
247	,,	Pentaceros herdmani (Large spiny specimen of star fish).
248	,,	The marine prawn (Penaeus sp.).
249	½ size	Spiny lobster.
250	,,	Scylla serrata (large edible crab).
251	,,	Butterflies (3 varieties).
252	,,	Robber crab or coconut crab (Bugus latro, dorsal view).
253	,,	Robber crab or coconut crab, side view.
254	,,	Crab (Neptunus pelagicus) and the section of the shell of Nautilus pompilus.
255	,,	Waterbug (Belostoma indica) plus Atlas moth.
256	,,	Atlas moth and grasshopper.
257	,,	Sea urchin (test without spines) and the starfish (Oreaster linckii).
258	½ size	Sea urchin (with spines).
259	,,	Sponge (Petrosia testudinaria Juv.).
260	,,	Spider (Phrynichus nigrimanus).
261	,,	Tarantula? spider (Poecilotheria metallica).
262	,,	Dhobi crab (Gelasimus annulipes).
263	,,	Enlarged model of housefly.
264	,,	Enlarged model of mosquito.
265	½ size	Petrosia : Large sized sponge—deep sea sponge from Tuticorin.
266	½ size	Scorpion (Palamsaneus swammerdami, dorsal view).
267	,,	Scorpion (Palamnaeus swammerdami, side view).
268	,,	Model of mosquito (dorsal view).
269	,,	Chelonobia testudinaria.
270	,,	Rhinoceros beetle (Adult—side view).
271	,,	Crab (Neptunus pelagicus).
272	,,	Rhinoceros beetle (life history).

BOTANY.

Negative number.	*Size.*	*Particulars.*
(1)	(2)	(3)
B XV 42	Quarter.	The Coconut palm, Alwaye.
43	,,	Husking coconuts, Alwaye.
44	,,	Steeping coconut husk, Travancore.
45	,,	Beating fibre out of coconut husk, Travancore.
46	,,	Spinning coir ropes, Travancore.
47	,,	Coir ropes, Alwaye Coir Factory.
48	,,	Coir nets, Alwaye.
49	,,	Coir mattresses, Alwaye.
50	,,	Designing on coir mattresses, Alwaye.

APPENDIX V—*cont.*

List of photo negatives prepared during the year 1963–64—cont.

BOTANY—*cont.*

Negative number.		*Size.*	*Particulars.*
(1)		(2)	(3)
B XVI	1	Quarter	Colouring coir mattresses, Alwaye.
	2	,,	Weaving coir mattresses, Alwaye.
	3	,,	Coir carpet (stitching border), Alwaye.
	4	,,	Colouring coir carpets, Alwaye.
	5	,,	Shearing coir mats, Alwaye.
	6	,,	Marketing coir goods, Alwaye.
	7	,,	Front view of the plant classification model under preparation (examples of plant materials fixed in place).
	8	,,	Back view of the plant classification model under preparation (examples of plant materials fixed in place.)
	9	,,	Aspect of shola (old negative).
	10	,,	Aspect of shola and ground vegetation in rain forest (old negative).
	11	,,	Aspect of shola, Nilgiris (old negative).
	12	,,	Rain forest vegetation on rocks and boulders (old negative).
	13	,,	Nettle shola (old negative).
	14	,,	Mountain grassland (old negative).
	15	,,	Interior of shola (old negative).
	16	,,	Interior of shola (old negative).
	17	,,	Aspect of shola (old negative).
	18	,,	Drymoglossum as epiphyte on Schleichera trijuga (old negative).
	19	,,	Do.
	20	,,	Aspect of shola (old negative).
	21	,,	Swamp (old negative).
	22	,,	Mountain grassland (old negative).
	23	,,	Aspect of shola (old negative).
	24	,,	Epiphytic plants (old negative).
B XIII	26	Half	Model of plant classification tree completed (front view).
	27	,,	Model of plant classification tree completed (back view).
	28	,,	Blechnum orientale.
	29	,,	Cheilanthes mysorensis.
	30	,,	Lygodium microphyllum.
	31	,,	Vittaria elongata.
	32	,,	Actiniopteris australis.
	33	,,	Schizoloma ensifolia.
	34	,,	Angiopteris evecta (frond).
	35	,,	Marsilea minuta (sporocarps).
	36	,,	Marsilea minuta (elongated internodes).
	37	,,	Marsilea minuta with sporocarps.
	38	,,	Lygodium microphyllum (fertile frond).
	39	,,	Marsilea coromandelica (with sporocarps).
	40	,,	Lygodium microphyllum (sterile frond and a fragment of fertile frond).
	41	,,	Marsilea minuta (clustered form).
	42	,,	Adiantum caudatum.
	43	,,	Hemionitis arifolia.
	44	,,	Dicranopteris linearis (frond).
	45	,,	Blechnum orientale (frond).
	46	,,	Angiopteris evecta (close up of frond).

APPENDIX V—*cont.*

List of photo negatives prepared during the year 1963-64—cont.

BOTANY—*cont.*

Negative number. (1)		*Size.* (2)	*Particulars.* (3)
B XIII	47	Half.	Vernation of Blechnum orientale.
	48	,,	Marsilea minuta (plant and sporocarps).
	49	,,	Dicranopteris linearis (back of the frond).
	50	,,	Dicranopteris linearis (front view of the frond).
B XVI	25	Quarter.	Ophioglossum pedunculosum.
B XVII	1	Half.	View of the front building Museum (old negative).
	2	,,	View of the Library and the Museum (old negaitve).
	3	,,	Front view of the plant classification model (modified).

GEOLOGY.

G. II	212 ..	Quarter.	Bazar Monghyr: Total collapse due to earthquake.
	213 ..	,,	Damage to the Sitamarai railway bridge due to Bihar earth-quake, 1934.

ANTHROPOLOGY.

Serial number. (1)	*Negative number.* (2)		*Size.* (3)	*Particulars.* (4)
1	F. IV.	89	2¼″ × 2¼″ film	Kambakkam prehistoric cave site.
2		90	,,	Do.
3		91	,,	Do.
4		92	,,	Do.
5		93	,,	Do.
6		94	,,	Do.
7		95	,,	Do.
8		96	,,	Do.
9		97	,,	Megalithic burial site at Ozhalur.
10		98	,,	Do.
11		99	,,	Do.
12		100	,,	Do.
13	F. V.	1	,,	Do.
14		2	,,	Do.
15		3	,,	Do.
16		4	,,	Do.
17		5	,,	Do.
18		6	,,	Do.
19		7	,,	Do.
20		8	,,	Do.
21		9	,,	Do.
22		10	,,	Do.
23		11	,,	Do.
24		12	,,	Do.
25		13	,,	

APPENDIX V—*cont.*

List of photo negatives prepared during the year 1963-64—cont.

ANTHROPOLOGY—*cont.*

Serial number (1)	*Negative number.* (2)		*Size.* (3)	*Particulars.* (4)
26	F. V.	14	2¼" × 2¼" film.	Kambakkam prehistoric cave site (Painting: 1).
27		15	,,	Do. do. 2).
28		16	,,	Do. do. 3).
29		17	,,	Do. do. 3).
30		18	,,	Do. do. 5).
31		19	,,	Do. do. 6).
32		20	,,	Do. do. 7 and 6).
33		21	,,	Do. do. 8).
34		22	,,	Do. (General view).
35		23	,,	Do. do.
36		24	,,	Do. do.
37	E. 16.	25	Quarter size.	"Quest for Food Exhibition" (March 1963).
38		26	,,	Rawana—Andhra Leather shadow play figure.
39		27	,,	Vali—Andhra leather shadow play.
40		28	,,	Talis.
41		29	,,	Do.
42		30	,,	Do.
43		31	,,	Do.
44		32	,,	Do.
45		33	,,	Do.
46		34	,,	Physical types of India.
47		35	,,	Do.
48		36	,,	Do.
49		37	,,	Do.
50		38	,,	Neolithic celt from Tenkasi.
51		39	,,	Do.
52		40	,,	Radcliffe Brown.
53		41	,,	Edward Tylor.
54		42	,,	Arthur Keith.
55		43	,,	Paul Broca.
56		44	,,	Ruth Benedict.
57		45	,,	Peter Wilheehm Schmidt.
58		46	,,	A. C. Haddon.
59		47	,,	A sledge harness of walrus hide or sealskin, fitted on dog's chest, Eskimo.
60		48	,,	Plaster cast group—percussion chipping: Diorama case—United States National Museum.
61		49	,,	Rai Bahadur Sarat Chandra Roy.
62		50	,,	Nara Veena (front view).
63	E. 17.	1	,,	Nara Veena (Musical instrument) another view.
64	E. XXIV.	45	Half size.	A view of the "Quest for food" exhibition.
65		46	,,	Another view of the "Quest for food" exhibition.
66		47	,,	Talis.
67		48	,,	Do.
68		49	,,	A view of the built-in cases in the Ethnology room No. 2.
69		50	,,	Do.

APPENDIX V—*cont.*

List of photo negatives prepared during the year 1963–64—cont.

ANTHROPOLOGY—*cont.*

Serial number. (1)	*Negative number.* (2)		*Size.* (3)	*Particulars.* (4)
70	E. XXV.	1	Half size.	A view of the built-in cases in the Ethnology Room, No. 2.
71		2	”	Do.
72		3	”	Potteries of Coimbatore, Pallavaram and Nilgiris sent to Director General of Archaeology.
73		4	”	African Tribes.
74		5	”	Family tree of man.
75		6	”	Principal stages of cultural development in India.
76		7	”	Man makes Civilization.
77		8	”	Neurets chart for measuring hair curvature.
78		9	”	Hair curvature calculations and portrait of late R.B. Foote.
79		10	”	A chart on physical types of India.
80		11	”	A view of built-in cases in the Kathakali Gallery.
81		12	”	Mandothari, Malabar leather figure.
82		13	”	James Frazer, Emile Durkheim and Boas.
83		14	”	Malinowski, Kroeber and Benedict.
84		15	”	Charles Darwin, Spencer and Tylor.
85		16	”	Marett and Malinowski.
86		17	”	Frazer and Bastian.
87		18	”	Parts of projectile points.
88		19	”	Percussion and pressure fracture.
89		20	”	Inner and outer clothing of Eskimo.
90		21	”	The building of an igloo-Eskimo.
91		22	”	Different types of basketry.
92		23	”	Mother goddesses of Mohenjadaro.

List of photo negatives prepared during the year 1963–64.

NUMISMATICS.

(1)	NA	45 to 47	3	Babylonian seals.

ARCHAEOLOGY.

	Negative number. (1)	*Size.* (2)	*Particulars.* (3)
F.	1385	Small.	Chandikesavara (front view), Periyapalayam (treasure trove).
	1386	”	Chandikesavara (back view), Periapalayam (treasure trove).
	1387	”	Parivettai Sokkar, Periyapalayam.
	1388	”	Vishnu (stone), Periyapalayam.
	1389	”	Siva (stone), Periyapalayam.
	1390	Half.	Kankalamurti (Back view) Tirukkalar.
	1391	”	Parvati (back and front) Private Collection (from O. C. Gangulis South Indian Bronzes).
	1392	”	Avalokitesvara (front and back), Victoria and Albert Museum, London.
	1393	”	Group of Saivite Saints, Ceylon (taken from a journal).
	1394	”	Venugopala with consorts, Chimakurti (front).
	1395	”	Venugopala with consorts, Chimakurti (back side).

APPENDIX V—*cont.*

List of photo negatives prepared during the year 1963–64—*cont.*

ARCHAEOLOGY—*cont.*

Negative number. (1)		*Size.* (2)	*Particulars.* (3)
1396	..	Half.	Srinivasa with consorts, Vadakkupanaiyur (front view).
1397	..	,,	Do.
1398	..	,,	Do.
1399	..	Quarter.	Sula with Vrishavahana.
1400	..	,,	Nataraja, Bank of Italy, Italy (taken from the T.A.S.S.I., Vol. I).
1401	..	,,	Chandrasekhara, Vadakkuppanaiyur.
1402	..	,,	Nataraja, Tiruvarangulam (back view).
1403	..	,,	Miniature stupa, Nagarjunakonda.
1404	..	,,	Maheswari, Velankanni.
1405	..	,,	Sudarasana (no history) Reserve collection.
1406	..	Full.	Rama—side view—Vadakkupanaiyur.
1407	..	,,	Rama—another—side view, Vadakkuppanaiyur.
1408	..	,,	Sita—side view, Vadakkuppanaiyur.
1409	..	,,	Sita—another side view, Vadakkuppanaiyur.
1410	..	,,	Varadaraja, with consorts, Srinivasanallur.
1411	..	,,	Mahavira.
1412	..	,,	Jain Tirtankara.
1413	..	,,	Vrishavahana with consorts—Boy saint.
1414	..	,,	Rishipatni—front and back.
1415	..	,,	Chandikesavara—Colombo Museum.
1416	..	,,	Sita—Lakshmi (Sita side view only).
1417	..	,,	Sita.
1418	..	,,	Siva of Kalyanasundara group.
1419	..	,,	Kankalamurti (front view).
1420	..	,,	Kankalamurti (back view).
1421	..	,,	Venugopala from Chimakurti (front view).
1422	..	,,	Venugopala from Chimakurti (back view).
1423	..	,,	Group of Saivite saints.
1424	..	,,	Avalokitesvara (front and back).
1425	..	,,	Parvati (front and back).
1426	..	,,	Rama and Sita (side view).
1427	..	,,	Rama and Sita (another side view).
1428	..	,,	Ardhanarisvara.
1429	..	,,	Tanjore Painting—King and Queen.
1430	..	,,	Do. —Mahishasuramardini.
1431	..	,,	Tanjore temple painting.
1432	..	,,	Dakshinamurti.
1433	..	,,	Back view of Varadaraja with consorts, Srinivasnallur.
1434	..	,,	Front view of the above.
1435	..	,,	Side view of Boy saint and front view of Surya.
1436	..	,,	Two Saints.
1437	..	,,	Side view of Chandikesvara and front view of Appar.
1438	..	,,	Nataraja and a Saint.
1439	..	,,	Two Natarajas.
1440	..	Half.	King, Kandarakottai.
1441	..	,,	Kannappanayanar.
1442	..	,,	Back view of Sikhivahana.
1443	..	,,	Back view of Kannappanayanar.
1444	..	,,	Back view of Natesa.
1445	..	,,	Sula with Vrishabhantika.
1446	..	,,	Nataraja.

APPENDIX V—*cont.*

List of photo negatives prepared during the year 1963-64—cont.

ARCHAEOLOGY—*cont.*

Negative number. (1)	*Size.* (2)	*Particulars.* (3)
1447 ..	Half.	Bell.
1448 ..	,,	Devi.
1449 ..	,,	Sita (bust), Vadakkuppanaiyur.
1450 ..	,,	Rama Do.
1451 ..	,,	Mahesvari, Velankanni.
1452 ..	,,	Hexagonal reliquary, Bhattiprolu.
1453 ..	,,	Back view of Nataraja, Tiruvarangulam.
1454 ..	,,	Sudarsana.
1455 ..	,,	Do.
1456 ..	,,	Do.
1457 ..	,,	Stupa, Nagarjunakonda.
1458 ..	,,	Sudarsana.
1459 ..	,,	Chandrasekhara.
1460 ..	,,	Nataraja, Bank of Italy.
1461 ..	,,	King in Nolamba Inscription.
1462 ..	,,	Tirtankara.
1463 ..	,,	Do.
1464 ..	,,	Do.
1465 ..	,,	Do.
1466 ..	Full.	Sittannavasal painting.
1467 ..	,,	Somaskanda, Kodiakkadu.
1468 ..	,,	Vishnu.
1469 ..	,,	Sridevi.
1470 ..	,,	Bhudevi.
1471 ..	Half.	Ganesa.
1472 ..	Full.	Ivory carving box.
1473 ..	Half.	Vallabha Ganapati (Ivory).
1474 ..	,,	Ivory carving—Box.
1475 ..	,,	Pedestal.
1476 ..	,,	Siva.
1477 ..	,,	Parvati.
1478 ..	,,	Skanda.
1479 ..	,,	Bronze Gallery—view.
1480 ..	,,	Nolamba sculpture—side view.
1481 ..	Small.	Eighteen Negatives taken on the occasion of the opening of the Bronze Gallery.
1482 ..	Full.	Goddess (48/64 N. A. (G).
1483 ..	,,	Goddess.
1484 ..	,,	Natesa, Tiruvalangadu (front view).
1485 ..	,,	Do. (back view).
1486 ..	,,	Do. (left side).
1487 ..	,,	Do. (right side).
1488 ..	,,	Tripurantaka, Kodumbalur.
1489 ..	,,	Buddha, Tiruvalanjuli.
1490 ..	,,	Painting, Kalamkari cloth (N. A. 3.).
1491 ..	,,	Do.
1492 ..	,,	Do.
1493 ..	,,	Do.
1494 ..	,,	Yakshi (from shed).

APPENDIX V—*cont.*

List of photo negatives prepared during the year 1963-64—*cont.*

Negative number.	*Size.*	*Particulars.*
(1)	(2)	(3)
		ARCHAEOLOGY—*cont.*
1495	Full.	Chaumukh—Jain Gallery.
1496	,,	Do.
1497	,,	Do.
1498	,,	Tirtankara.
1499	,,	Chaumukh—Jain Gallery.
1500	,,	Do.
1501	,,	Do.
1502	,,	Do.
1503	,,	Do.
1504	,,	Santinada—Jain Gallery.
1505	Half.	Head of Tirtankara—Jain Gallery.
1506	,,	Do.
1507	,,	Tirtankara—Jain Gallery.
1508	,,	Do.
1509	,,	Chaumukh.
1510	,,	Tirtankara (shed).
1511	,,	Tirtankara (broken).
		CHILDREN'S SECTION.
F. 23	Quarter.	Photograph taken on the occasion of the opening of the new Natural History Block.
F. 24	,,	Do.

CHEMICAL CONSERVATION.

Negative number.	*Size.*	*Particulars.*
(1)	(2)	(3)
C. III. 140	Quarter.	Broken bronze bowl.
141	Half.	A view of the Special exhibition.
142	,,	View of the Laboratory.
143	,,	A view of the New Block of the Laboratory.
144, 145, 146	Quarter.	Opening function of the Laboratory.
147, 148	,,	View of Laboratory New Block flood lit.
149	,,	Coins from the Madras University before treatment.
150, 151	Half.	Copying of photographs of Taj Mahal in 1891 and in 1961.
152	Quarter.	University coins after treatment.
153	Half.	Wooden panels before treatment.
154, 163	Roll film, 120	Bronzes before treatment.

APPENDIX VI.

Price list of Madras Government Museum Bulletins (New series).

Note.—Orders for copies of the publications should be accompanied by remittance to cover the cost and postage. For the trade terms, the Superintendent, Government Press, Madras, or the Superintendent, Government Museum, Madras, should be addressed.

Volume and number. (1)	Description. (2)	Number of pages. (3)	Number of plates. (4)	Price. (5) RS.	P.
	NATURAL HISTORY SECTION.				
Vol. I, No. 1, 1927.	The Littoral Fauna of Krusadai Island in the Gulf of Mannar, with appendices on the vertabrates and plants. By variaus authors.	196	26	8	00
† Vol. I, No. 2, Part 1, 1933.	Supplement to the Littoral Fauna of Krusadai Island in the Gulf of Manaar—Polychaeta by P. Fauvel, Pycnogonida by B. Sundara Raj and Alpheidae by F. H. Gravely.	79	1	2	00
† Vol. I, No. 2, Part 2, 1931.	Three Species of Alcyonaria. By Sydney J. Hickson, F.R.S. (with three text figures).	9	Nil.	0	25
† Vol. I, No. 2, Part 3, 1936.	Scyphomedusae of Krusadai Island. By M. G. K. Menon, M.A.	9	1	0	50
† Vol. I, No. 2, Part 4, 1937.	Supplement to the Littoral Fauna of Krusadai Island in the Gulf of Manaar—Porifera. By M. Burton, D.SC.	58	9	1	87
‡ Vol. I, No. 2, Part 5, 1943.	The Foraminifera of Krusadai Island in the Gulf of Mannar. By C. P. Gnanamuthu, M.A., D.SC., F.Z.S.	21	4	1	37
Vol. I, No. 2, Part 6.	Amphineura and Gastropoda of Krusadai Island. By S. Thomas Satyamurthi, M.A., F.Z.S.	267	34	10	75
Vol. I, No. 2. Part 7.	Scaphopoda, Pelecypoda and Cephalopoda of Krusadai Island. By S. T. Satyamurthi, M.A., D.SC., F.Z.S.	202	30	9	37
† Vol. II, 1929 ..	The Flowering Plants of the Madras City and its immediate neighbourhood. By P. V. Mayuranathan, B.A. Botanical Assistant, Madras Musuem.	345	88	8	00
Vol. III, No. 1, 1930.	The Scyphomedusae of Madras and the neighbouring Coast. By M.G.K. Menon, M.A. Research Scholar, Madras University Zoological Laboratory.	28	3	1	12
Vol. III, No. 2, 1932.	The Hydromedusae of Madras. By M. G. K. Menon, M.A.	32	3	1	12
Vol. III, No. 3, 1933.	The Life Histories of Decapod Crustacea from Madras. By M. Krishna Menon, M.A.	45	10 }	Bound in one volume.	
Vol. III, No. 4, 1933.	Sagitta of the Madras Coast. By C. C. John, M.A., D.SC.	10	1 }	2	37
Vol. III, No. 5, 1937.	Decepod Larvae from the Madras Plankton. By M. Krishna Menon, M.A., M.SC.	55	9	1	87
Vol. III, No. 6, 1940.	Decapod Larvae from the Madras Plankton—II. By M. Krishna Menon, M.A., M.SC.	47	8	1	50

* This number is reserved for supplements to Krusadai Island Fauna.

† Out of stock.

Volume and number. (1)	*Description.* (2)	*Number of pages.* (3)	*Number of plates.* (4)	*Price.* (5) RS. P.
	NATURAL HISTORY SECTION—*cont.*			
Vol. IV, No. 1, 1931.	The Indian Species of Genus Caralluma (Fam, Asclepiadaceae). By F.H. Graveley, D.SC. and P. V. Mayuranathan, B.A. Government Museum, Madras.	28	4	1 50
‡ Vol. IV, No. 2, 1938.	Supplement to the Flowering Plants of Madras City and its immediate neighbourhood. By E. Barnes, D.SC.	46	7	1 67
Vol. V, No. 1, 1941.	Shells and other Animal Remains found on the Madras Beach. I. Groups other than snails, etc. By F. H. Gravely, D.SC.	112	Nil.	3 12
Vol. V, No. 2, 1942.	Shells and other Animal Remains found on the Madras Beach. II. Snails, etc. (Mollusca Gastropoda). By F. H. Gravely, D.SC.	110	Nil.	2 75
Vol. VI, No. 1, 1949.	The Thaliacea of the Madras Plankton. By R. Velappan Nair, M.SC.	41	6	1 75
‡ Vol. VI, No. 2 ...	Cirripedia of the Madras Coast. By A. Daniel.	40	16	2 37
Vol. VI, No. 3, 1959.	The Amphipoda of the Madras Coast. By K. Nagappan Nair, M.SC.	59	16	4 35
Vol. VI, No. 4, 1960.	The Land and Freshwater Mollusca in the Collection of the Madras Government Museum. By S. T. Satyamurthi, M.A., D.SC., F.Z.S.	174	21	13 00
1960	Guide to the Snakes exhibited in the Reptile Gallery. By S. T. Satyamurthi, M.A., D.SC., F.Z.S.	25	—	0 75
1961	Guide to Snakes exhibited in the Reptile Gallery (Tamil). By S. T. Satyamurthi, M.A., D.SC., F.Z.S.	26	18	0 62
1962	Guide to the Lizards, Crocodiles, Turtles and Tortoises exhibited in the Reptile Gallery. By S. T. Satyamurthi, M.A., D.SC., F.Z.S.	45	28	1 37
1963	Guide to the Galleries of Foreign Animals, General Zoology, skeletal exhibits and Amphibians. By S. T. Satyamurthi, M.A., D.SC., F.Z.S.	65	40	3 00
	GENERAL SECTION (WITH SEPARATE VOLUMES FOR ANTHROPOLOGY AND ARCHAEOLOGY RESPECTIVELY).			
Vol. I, No. 1, 1929 ...	Buddhist Sculptures from a Stupa near Goli village, Guntur district. By T. N. Ramachandran, M.A.	44	12	1 55
‡ Vol. I, No. 2, 1932.	Catalogue of the South Indian Hindu Metal Images in the Madras Government Museum. By F. H. Gravely, D.SC., and T.N. Ramachandran, M.A.	144	23	5 50
‡ Vol. I, No. 3, 1934.	Thiruparuttikundram and its temples with appendices on Jaina units of measurement and time, cosmology and classification of souls. By T.N. Ramachandran, M.A.	260	37	11 25
Vol. II, No. 1, 1930...	The Adichanallur skulls. By S. Zuckerman, M.A., M.R.C.S., L.R.C.P., with Notes by Prof. G. Elliot Smith, F.R.S.	24	3	1 37

‡ Out of stock.

Volume and number. (1)	Description. (2)	Number of pages. (3)	Number of plates. (4)	Price. (5) RS.	P.
GENERAL SECTION (WITH SEPARATE VOLUMES FOR ANTHROPOLOGY AND ARCHAEOLOGY RESPECTIVELY)—*cont.*					
Vol. II, No. 2, 1931 ..	The Sri Vaishnava Brahmins. By Diwan Bahadur K. Rangachari, M.A., L.T.	158	2	5	75
Vol. III, No. 3, 1931 ..	Catalogue of the Musical Instruments exhibited in the Government Museum, Madras. By P. Sambamurthy, B.A., B.L. (Revised Edition).	32	14	2	25
‡ Vol. II, No. 4, 1937.	Social and Physical Anthropology of the Nayadis of Malabar. By A. Aiyappan, M.A.	141	12	3	12
Vol. III, No. 1, 1934.	The Three Main Styles of Temple Architecture recognised by the Silpa sastras. By F. H. Gravely, D.SC., and T. N. Ramachandran, M.A.	26	2	1	10
Vol. III, No. 2, 1936	An Outline of Indian Temple Architecture. By F. H. Gravely, D.SC.	20	2	0	50
Vol. III, No. 3, 1938.	Catalogue of Venetian Coins in the Madras Government Museum. By T. G. Aravamuthan, M.A., B.L.	59	1	1	50
‡ Vol. III, No. 4 ..	Indian Epigraphy and South Indian Scripts. By C. Sivaramamurthi, M.A.	280	12	14	50
1939	Guide to the Archaeological Galleries, An Introduction to South Indian Temple Architecture and Sculpture. By F. H. Gravely, D.SC. and C. Sivaramamurthi, M.A. and other Curators.	50	4	0	55
1939	Illustrations of Indian Sculpture—Mostly Southern. For use with the Guide to the Archaeological Galleries. By F. H. Gravely, D.SC., and C. Sivaramamurthi, M.A.	..	45	0	95
Vol. IV, 1942 ..	Amaravati Sculptures in the Madras Government Museum. By C. Sivaramamurthi, M.A.	376	65	16	50
‡ Vol. V, No. 1, 1944.	Iravas and Culture Change. By A. Aiyappan, M.A., PH.D. (London).	204	12	16	60
Vol. VI, No. 1, 1952.	Possible Sumerian Survivals in Toda Ritual. By H. R. H. Prince Peter of Greece, M.A., (Hry), LLD.	24	10	6	25
‡ 1952..	Madras Government Museum Centenary Souvenir (1851—1951).	158	12	5	00
1952	Guide to the Buddhist Antiquities. By A. Aiyappan and P. R. Srinivasan.	54	12	0	80
Vol. VII, No. 1, 1954.	Nagapattinam Bronzes. By T. N. Ramachandran.	150	30	6	00
1953	Coins of India Through the ages ..	17	3	0	40
‡ 1957..	Early Eastern Chalukyan Sculpture. By C. Sivaramamurthi.	71	35	2	90
Vol. VII, No. 3, 1959.	Select Satavahana Coins in the Madras Government Museum. By M. Rama Rao, M.A., P.H.D.	23	2	1	75

‡ Out of stock.

Volume and number. (1)	*Description.* (2)	*Number of pages.* (3)	*Number of plates.* (4)	*Price.* (5) RS. P.
	GENERAL SECTION (WITH SEPARATE VOLUMES FOR ANTHROPOLOGY AND ARCHAEOLOGY RESPECTIVELY)—*cont.*			
Vol. VII, No. 4, 1959.	Beginnings of the Traditions of South Indian Temple Architecture. By P. R. Srinivasan, M.A.	34	..	1 70
Vol. VII, No. 5, 1959.	The Gopuras of Tiruvannamalai. By F. H. Gravely, D.SC.	8	13	5 90
1960	Handbook of Museum Technique, Edited by A. Aiyappan, M.A., PH.D. and S. T. Satyamurti, M.A., D.SC., F.Z.S.	228	11	2 75
1960	Scripts in and around India. By V. Kanniyan, B.A.	46	..	2 70
1961	Kalaichelvangal. (Tamil). By R. Nagaswamy, B.A. (Hons).	68	40	1 00
1962	Pazhankala Panpadum Pazham Kudikalin Panpadum (Tamil). By C. J. Jayadev, M.A., L.T. and M. Raghupathy, M.A.	61	33	1 60
Vol. VIII, 1963 ..	Bronzes of South India. By P. R. Srinivasan, M.A.	396	205	57 00

CATALOGUES (OLD SERIES).

Description.	Price. RS.	P.
1 Catalogue of Pre-historic Antiquities—By R. Bruce Foote—1901	5	25
2 The Foote Collection of Indian Pre-historic and Proto-historic Antiquities. Catalogue Raisonne—By R. Bruce Foote—1914	2	00
3 Catalogue of Pre-historic Antiquities from Adichanallur and Perumbair—By A. Rea—1915.	1	50
4 The Foote Collection of Indian Pre-historic and Protohistoric Antiquities. Notes on their Ages and Distribution—By R. Bruce Foote—1916	9	75
* 5 Catalogue of Exhibits in the Economic Products Section except wood specimens—By S. N. Chandrasekhara Ayyar—1921	2	12
6 Catalogue of the coins of Haider Ali and Tippu Sultan—By J. R. Henderson—1921 ..	4	00
* 7 Catalogue of copper-plate grants	0	87
8 Gramaphone records of the languages and dialects of the Madras Presidency. Text of Passages	1	25
* 9 Catalogue of Batrachia, Salientia and Apoda (Frogs, Toads and Coecilians of South India)—By E. Thurston—1888	2	50
* 10 Guide to the Natural History and Mineral Galleries—1890	0	13
* 11 Science Series No. 1—Preliminary Report on the Marine Fauna of Rameswaram—1887 ..	0	62
* 12 Coins of Sultans of Delhi—By E. Thurston—1893	0	19

BULLETINS (OLD SERIES).

Volume and number.	Description.	Price. RS.	P.
* 1 No. 1 ..	Pearl and Chank Fisheries in the Gulf of Mannar. By E. Thurston—1895	1	25
2 No. 3 ..	Rameswaram Island and Fauna of the Gulf of Mannar. By E. Thurston—1895	1	50
* 3 Vol. II, No. 1	Anthropology; Badagas and Irulas of the Nilgiris, Paniyans of Malabar; A. Chinese-Tamil Cross, A Cheruman skull; Kuruba or Kurumba; summary of results. By E. Thurston—1897	2	00
4 Vol. II, No. 2	Anthropology; Eurasians of Madras and Malabar; Note on their Tattooing, etc., By E. Thurston—1898	1	00
5 Vol. III, No. 2	The Sea Fisheries of Malabar and South Kanara. By E. Thurston—1900	1	25
6 Vol. III, No. 3	Anthropology; Nayars of Malabar. By F. Fawcett—1901	1	50
* 7 Vol. IV, No. 2	Anthropology; The Dravidan Head Yanadis of Nellore—1902	1	00
* 8 Vol, IV, No. 3	Anthropology; Some Marriage Customs in South India; Deformity and Mutilation; Uralis, Sholagas and Irulas; Fire-walking in Ganjam, Corporal punishment in vernacular schools—1903	0	75
9 Vol. V, No. 1	Anthropology; Vision of the Uralis and Sholagas; More marriage customs in Southern India; Hook-swinging, Pulayans—1903	1	00

* Out of stock.

APPENDIX VII.

Receipts and Expenditure.

(A) Receipts—

	Amount. RS.	P.
1 Sale of photos ..	853	15
2 Sale of microfilming copies ..	577	29
3 Sale of photo album ..	162	00
4 Sale of replicas ..	2,625	00
5 Sale of coins ..	372	08
6 Sale of metal casts of coins ..	350	00
7 Sale of coin packing box ..	15	84
8 Overtime fees of Caretaker remitted into R.B.I. ..	935	00
9 Unspent police charges remitted into R.B.I. ..	123	69
10 Miscellaneous receipts such as postage recovered from parties, etc. ..	115	30
11 Cost of bullion contents of gold articles, not required by Government Museum (By Book Transfer) ..	963	87
12 Theatre rents ..	6,950	00
13 Centenary Exhibition Hall rents ..	570	00
14 Museum Restaurant rent ..	1,909	00
15 Motor pump charges ..	271	50
16 Cycle stand rent for 1963-64 ..	648	00
17 Sale of publications ..	4,482	14
18 Sale of picture post cards ..	511	10
	22,624	96

APPENDICES RELATING TO THE GOVERNMENT MUSEUM, PUDUKKOTTAI.

APPENDIX A.

Number of visitors to the museum during the year 1963-64.

Months.	*Number.*
1963—	
May ..	16,060
June ..	13,307
July ..	11,960
August ..	4,037
September ..	5,148
October ..	4,162
November ..	7,317
December ..	6,030
1964—	
January ..	5,042
February ..	6,127
March ..	8,445
April ..	2,174
Total ..	89,809

APPENDIX B.

List of schools which visited the museum from 1st May 1963 to 14th April 1964.

Serial number.	*Date.*	*Name and place of school.*	*Number of teachers.*	*Number of students.*
(1)	(2)	(3)	(4)	(5)
1	13th May 1963 ..	Alagappa High School, Karaikudi ..	5	55
2	28th June 1963 ..	Union High School, Tirugokarnam ..	7	33
3	20th July 1963 ..	Board High School, Keeranur	2	30
4	17th August 1963 ..	Elementary School, Annavasal	4	20
5	18th September 1963.	B. T. College Students, Pudukkottai ..	5	25
6	25th September 1963.	Rani Girls' High School, Pudukkottai ..	1	20
7	7th October 1963 ..	Lady Doak College, Madurai	6	30
8	23rd October 1963 ..	Subramaiyer High School, Pudukkottai.	7	36
9	31st October 1963 ..	Coimbatore Arts College, Coimbatore ..	8	40
10	7th November 1963 ..	T. E. L. C. High School, Pudukkottai ..	6	65
11	29th November 1963.	Elementary School, Vellanore	2	25
12	2nd December 1963 ..	Higher Elementary School, Tiruvappur ..	1	16
13	24th December 1963..	Brahadhambal High School, Pudukkottai ..	7	30
14	17th January 1964 ..	Basic School (Students), Pudukkottai ..	1	70
15	30th January 1964 ..	Shorters B. T. (Students), Pudukkottai ..	5	30
16	19th February 1964 ..	Panchayat Union School, Nagapattinam ..	1	36
17	22nd February 1964.	T. E. L. C., Arantangi	3	30
18	23rd February 1964.	Punitha Mariammai Higher Elementary School, Tiruchirappalli.	5	30
19	29th February 1964.	Municipal High School, Pudukkottai ..	3	50
20	6th March 1964 ..	Alagappa Mandisary High School, Karaikudi.	5	75
21	7th March 1964 ..	Punitha Mariammai High School, Madurai ..	18	176
22	17th March 1964 ..	Villivakkam High School, Madras	3	24
23	21st March 1964 ..	Secondary School, Sadaipettai, Pudukkottai.	4	120
24	30th March 1964 ..	Co-operative Union High School, Amarachur.	5	56
25	1st April 1964 ..	Elementary School, Duraiyur	5	49
26	4th April 1964 ..	B. U. D. School, Pilakkudi	3	32
27	7th April 1964 ..	Board High School, Virudhachalam ..	4	50

APPENDIX IV.

Statement showing receipts and expenditure in the Government Museum, Pudukkottai-2, for 1963–64.

A. *Receipts.*

	RS.	P.
Sale of Handy Guide (English)	4	15
Sale of Handy Guide (Tamil)	4	50
Total ..	8	65

APPENDIX IV—cont.

Statement showing receipts and expenditure in the Government Museum Pudukkottai-2, *for* 1963–64—cont.

A. Receipts—cont.

a. *Museum*—A. *Museum.*	*Budget grant.*	*Actual expenditure.*
(1)	(2)	(3)
	RS.	RS.
1. Pay of Establishment	13,397	13,397
2. Allowances—		
(a) Travelling Allowance	392	378
(b) Dearness Allowance	2,800	2,800
(c) Other Compensatory Allowance	650	620
3. Office contingencies—		
(a) Furniture and Fittings	849	849
(b) Rates and Taxes	429	423
(c) Pay of contingent staff	542	542
(d) Dearness allowance to contingent staff ..	697	697
(e) Special compensatory allowance to the contingent staff.	423	423
(f) Other contingencies	2,698	2,737
4. Other charges—		
(a) Apparatus and materials	1,400	1,359
(b) Cost of specimens	87	92
(c) Other charges	435	474
Total ..	24,798	24,791
5. Plan Scheme—		
Pay of Establishment	1,062	1,062
Dearness Allowance	175	175
Other compensatory allowance	36	36
Equipment	1,983	1,983
Total ..	3,256	3,256

APPENDIX D.

List of books added to the museum library during 1963–64.

1 Man in India, Vol. 43, No. 2, April—June, 1963.
2 Do. 3, July—September, 1963.
3 Do. 4, October—December, 1963.
4 Do. Vol. 44 No. 1, January—March, 1964.
5 Marg. Vol. XVI, No. 2, March, 1963.
6 Do. 3, June, 1963.
7 Do. 4, September, 1963.
8 Marg., Vol. XVII, No. 1, December, 1963.
9 Journal of Bombay Natural History Society, Vol. 59, No. 3, December, 1962.
10 Journal of Bombay Natural History Society, Vol. 60, No. 1, April, 1963.
11 Do. 2, August, 1963.
12 Cultural Forum Vol. 5 No. 3, March–April, 1963.
13 Do. 4, May–July, 1963.

APPENDIX D—*cont.*

***Llist of books added to the museum library during* 1963–64—cont.**

14	Cultural Forum, Vol. 6, No. 1, May–July, 1963.	
15	Cultural Forum, Special issue, January, 1964.	
16	The Madras Treasury Code, Vol. III, 1963.	
17	Supplementary Glossary of Special Terms (English–Tamil),	Agricultural Department.
18	Do.	Registration Department.
19	Do.	State Transport Department.
20	Do.	Approved Schools and Vigilance Service Department.
21	Do.	Accommodation Controller's Office.
22	Do.	Madras Public Service Commission.
23	Do.	Irrigation Department.
24	Do.	Hindu Religious and Charitable Endowments (Administration) Department.
25	Do.	Highways and Rural Works Department.
26	Do.	Medical Department.
27	Scripts in and around India, by V. Kanniyan.	
28	Kalaichelvangal (Tamil), by R. Nagaswamy.	
29	Directory of Indian Museums (Translation) (Tamil), by T. M. Baskara Tondaiman.	
30	Pazhankala Panpadum Pazhamkudigalin Panpadum (Tamil), by C. J. Jayadev and M. Raghupathy.	
31	Pazhagakudiol (Tamil), by Philo Irudayanath.	
32	Sociology—An Introduction, by Samuvel Keenig.	
33	Family private property—state its origin (Tamil), by Freatik Augale.	
34	State, by V. E. Lenin.	
35	The Cirripedia of the Madras Coast, by A. Daniel.	
36	Guide to the Gallery of Foreign Animals, by S. T. Satyamurti.	
37	Guide to Lizards, Crocodiles, Turtles and Tortoises, by S. T. Satyamurti.	
38	Guide to Snakes (Tamil), by S. T. Satyamurti.	
39	Insects, by Zim and Cottam.	
40	Zoology, by Burnett, Fisher and Zim.	
41	Fossils, by Rhodes, Zim and Shaffer.	

EDUCATION AND PUBLIC HEALTH DEPARTMENT

(Education).

G.O. No. 1095, 19th June 1964

Museums—Administration Report of Government Museums at Madras and Pudukkottai and National Art Gallery, Madras, for the year 1963-64—Recorded.

READ—the following paper :—

Letter from the Superintendent, Government Museum, dated 27th May 1964, No. 2085/64-E.

Order—No. 1095, Education, dated 19th June 1964.

Recorded.

(By order of the Governor)

J. ANJANI DAYANAND,
Deputy Secretary to Government.

To the Controller of Stationery and Printing, Madras-1 *(for printing and supply of printed copies).*
,, Superintendent, Government Museum, Madras-8.
,, Director of Public Instruction, Madras-6.
,, Accountant-General, Madras-18.
,, Director-General of Archaeology in India, New Delhi.
,, Revenue Department.
,, Industries, Labour and Co-operation Department.
,, Librarian, Madras Legislative Library, Madras-9.
,, Librarian, Secretariat Library, Madras-9.